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Mouse Anti-Histone H3 (Nuclear Loading Control)antibody

SLM-33042M

Product Name	Histone H3 (Nuclear Loading Control)
Chinese Name	组蛋白 H3（核内参）单克隆抗体
Alias	H3 histone family member E pseudogene; H3 histone family, member A; H3/A; H31_HUMAN; HIST1H3B; HIST1H3C; HIST1H3D; HIST1H3E; HIST1H3F; HIST1H3G; HIST1H3H; HIST1 HIST3H3; histone 1, H3a; Histone cluster 1, H3a; Histone H3 3 pseudogene; Histone H3.1; Hist Histone H3/c; Histone H3/d; Histone H3/f; Histone H3/h; Histone H3/i; Histone H3/j; Histone H H3/d; H3C1; H3C10; H3C11; H3C12; H3C2; H3C3; H3C4; H3C7; H3C8; H3FD; Nuclear Loac
Product Type	Internal reference anti
Research Area	Cell biology immunology Cyclin Cell type markers
Immunogen Species	Mouse
Clonality	Monoclonal
Clone NO.	3G1
React Species	Human,Mouse,Rat(predicted:Bee,Hamster)
Applications	WB=1:2000-20000,IHC-P=1:1000-2000,IHC-F=1:1000-2000,IF=1:100-500 （Paraffin sections not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	15kDa
Cellular localization	The nucleus
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Histone H3
Lsotype	IgG
Purification	affinity purified by Protein G
Buffer Solution	Human,Mouse,Rat(predicted:Bee,Hamster)1M TBS(pH7.4) with 1% BSA, Human,Mouse,Rat(predicted:Bee,Hamster)3% Proclin300 and 50% Glycerol.

Storage Shipped at 4℃. Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human, therapeutic or d

PubMed PubMed

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chron eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone oc of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compa interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order c gene is intronless and encodes a replication-dependent histone that is a member of the histone H3 this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is the other H3 genes that are in the histone gene cluster on chromosome 6p22-p21.3. [provided by

Function:
Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting cellular machineries which require DNA as a template. Histones thereby play a central role in tra DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a c post-translational modifications of histones, also called histone code, and nucleosome remodelin

Subunit:
The nucleosome is a histone octamer containing two molecules each of H2A, H2B, H3 and H4 a heterotetramer and two H2A-H2B heterodimers. The octamer wraps approximately 147 bp of D

Subcellular Location:
Product Detail Nucleus; Chromosome

Tissue Specificity:
Expressed in testicular cells.Expressed during S phase, then expression strongly decreases as cel during the process of differentiation.

Post-translational modifications:
Acetylation is generally linked to gene activation. Acetylation on Lys-10 (H3K9ac) impairs meth (H3R8me2s). Acetylation on Lys-19 (H3K18ac) and Lys-24 (H3K24ac) favors methylation at A Acetylation at Lys-123 (H3K122ac) by EP300/p300 plays a central role in chromatin structure: l the histone octamer and stimulates transcription, possibly by promoting nucleosome instability (Citrullination at Arg-9 (H3R8ci) and/or Arg-18 (H3R17ci) by PADI4 impairs methylation and re Asymmetric dimethylation at Arg-18 (H3R17me2a) by CARM1 is linked to gene activation. Sym Arg-9 (H3R8me2s) by PRMT5 is linked to gene repression. Asymmetric dimethylation at Arg-3 is linked to gene repression and is mutually exclusive with H3 Lys-5 methylation (H3K4me2 and is present at the 3' of genes regardless of their transcription state and is enriched on inactive promo active promoters (By similarity).
Methylation at Lys-5 (H3K4me), Lys-37 (H3K36me) and Lys-80 (H3K79me) are linked to gene at Lys-5 (H3K4me) facilitates subsequent acetylation of H3 and H4. Methylation at Lys-80 (H3K DNA double-strand break (DSB) responses and is a specific target for TP53BP1. Methylation at Lys-28 (H3K27me) are linked to gene repression. Methylation at Lys-10 (H3K9me) is a specific

(CBX1, CBX3 and CBX5) and prevents subsequent phosphorylation at Ser-11 (H3S10ph) and a
Methylation at Lys-5 (H3K4me) and Lys-80 (H3K79me) require preliminary monoubiquitinatio
Methylation at Lys-10 (H3K9me) and Lys-28 (H3K27me) are enriched in inactive X chromoson
Monomethylation at Lys-57 (H3K56me1) by EHMT2/G9A in G1 phase promotes interaction wi
for DNA replication (By similarity).
Phosphorylated at Thr-4 (H3T3ph) by GSG2/haspin during prophase and dephosphorylated duri
Phosphorylation at Ser-11 (H3S10ph) by AURKB is crucial for chromosome condensation and c
during mitosis and meiosis. In addition phosphorylation at Ser-11 (H3S10ph) by RPS6KA4 and
during interphase because it enables the transcription of genes following external stimulation, like
factors or UV irradiation and result in the activation of genes, such as c-fos and c-jun. Phosphory
(H3S10ph), which is linked to gene activation, prevents methylation at Lys-10 (H3K9me) but fac
and H4. Phosphorylation at Ser-11 (H3S10ph) by AURKB mediates the dissociation of HP1 pro
CBX5) from heterochromatin. Phosphorylation at Ser-11 (H3S10ph) is also an essential regulato
neoplastic cell transformation. Phosphorylated at Ser-29 (H3S28ph) by MLTK isoform 1, RPS6
mitosis or upon ultraviolet B irradiation. Phosphorylation at Thr-7 (H3T6ph) by PRKCB is a spe
transcriptional activation that prevents demethylation of Lys-5 (H3K4me) by LSD1/KDM1A. At
phosphorylated at Thr-12 (H3T11ph) from prophase to early anaphase, by DAPK3 and PKN1. P
(H3T11ph) by PKN1 is a specific tag for epigenetic transcriptional activation that promotes dem
(H3K9me) by KDM4C/JMJD2C. Phosphorylation at Tyr-42 (H3Y41ph) by JAK2 promotes exc
alpha) from chromatin (By similarity).
Ubiquitinated.
Lysine deamination at Lys-5 (H3K4all) to form allysine is mediated by LOXL2. Allysine formati
place on H3K4me3 and results in gene repression.

Similarity:
Belongs to the histone H3 family.

SWISS:
P68431

Gene ID:
8350

Database links:

Entrez Gene: 8350 Human

Entrez Gene: 8351 Human

Entrez Gene: 8352 Human

Entrez Gene: 8353 Human

Entrez Gene: 8354 Human

Entrez Gene: 8355 Human

Entrez Gene: 8356 Human

Entrez Gene: 8357 Human

Entrez Gene: 8358 Human

Entrez Gene: 8968 Human

Entrez Gene: 260423 Mouse

Entrez Gene: 319148 Mouse

Entrez Gene: 319149 Mouse

Entrez Gene: 319150 Mouse

Entrez Gene: 319151 Mouse

Entrez Gene: 319152 Mouse

Entrez Gene: 319153 Mouse

Entrez Gene: 360198 Mouse

Entrez Gene: 97908 Mouse

Entrez Gene: 100364501 Rat

Entrez Gene: 100365669 Rat

Entrez Gene: 291159 Rat

Entrez Gene: 314977 Rat

Entrez Gene: 364716 Rat

Entrez Gene: 679950 Rat

Entrez Gene: 679994 Rat

Entrez Gene: 680511 Rat

Entrez Gene: 680599 Rat

Entrez Gene: 682330 Rat

Entrez Gene: 691496 Rat

SwissProt: P68431 Human

SwissProt: P84243 Human

SwissProt: Q16695 Human

SwissProt: Q6NXT2 Human

SwissProt: Q71DI3 Human

SwissProt: P68433 Mouse

SwissProt: P84228 Mouse

SwissProt: Q6LED0 Rat

组蛋白的基因非常保守，在亲缘关系较远的种属中，四种组蛋白(H2A、H2A、H3、H4)氨
如海胆组织 H3 的氨基酸序列与来自小牛胸腺的 H3 的氨基酸序列间只有一个氨基酸的差
氨基酸序列与豌豆的 H3 也很相似。组蛋白是 The nucleus 内的一种碱性核蛋白，抗组蛋白
靶抗原的一种自身，是抗核抗体的一种。分子量：16-18KDa。主要与药物性红斑狼疮、
湿关节炎有关。

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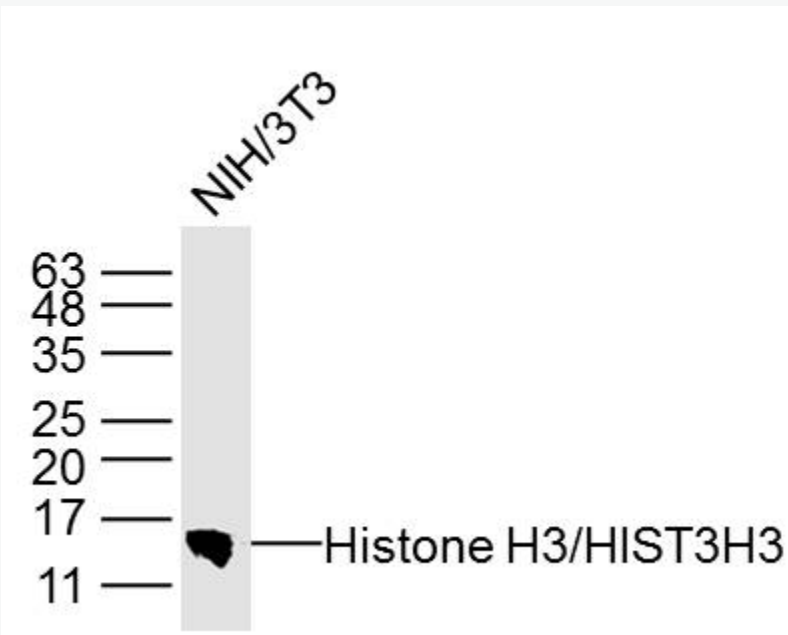
Product Picture



Sample: NIH/3T3 Cell(Mouse) Lysate at 40 ug

Primary: Anti-Histone H3/HIST3H3(SLM-33042M)at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 15kD

Observed band size: 15kD

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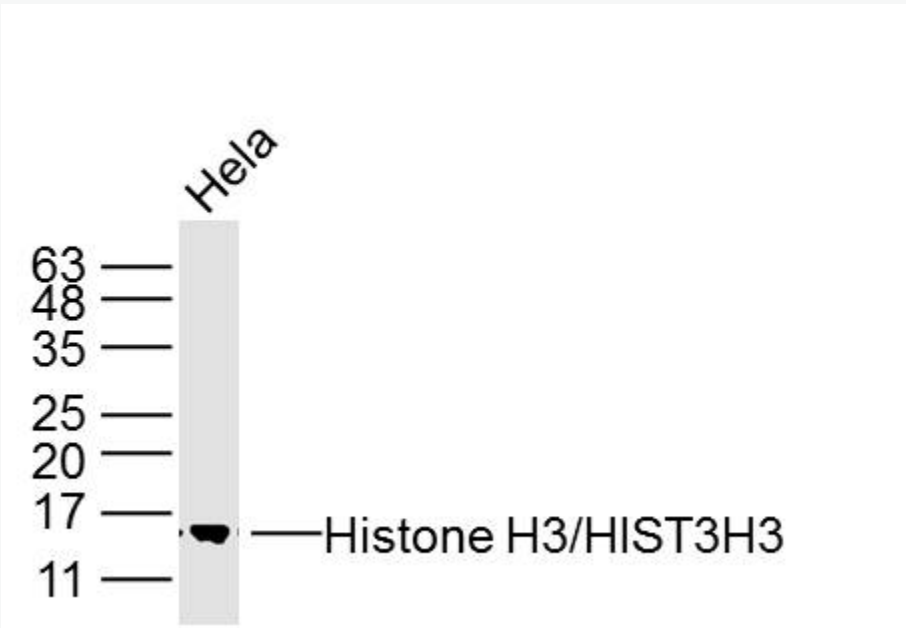

Sample:Hela Cell (Human) Lysate at 40 ug

Primary: Anti-Histone H3/HIST3H3(SLM-33042M)at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 15kD

Observed band size: 15kD

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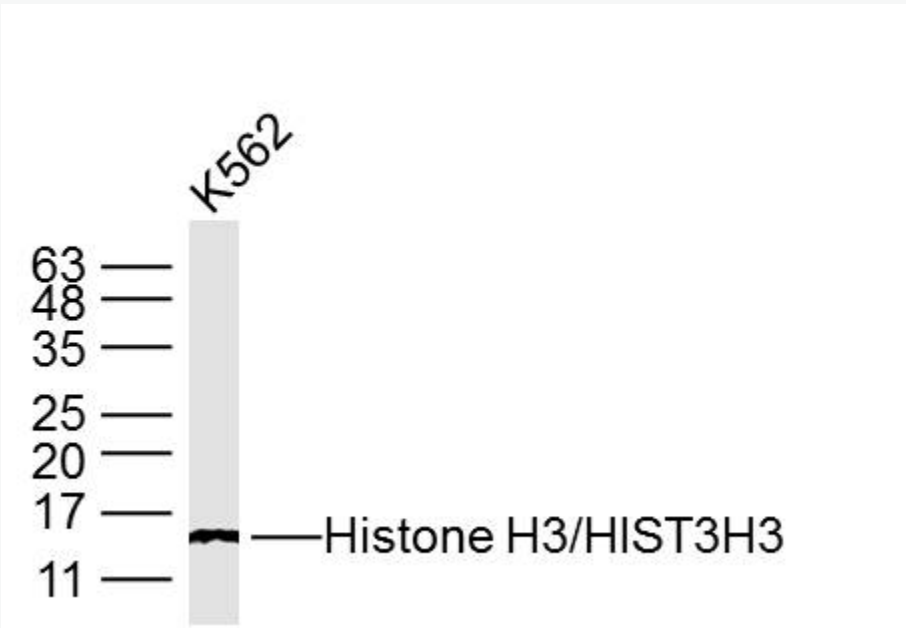

Sample: K562 Cell (Human) Lysate at 40 ug

Primary: Anti-Histone H3/HIST3H3(SLM-33042M)at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 15kD

Observed band size: 15kD

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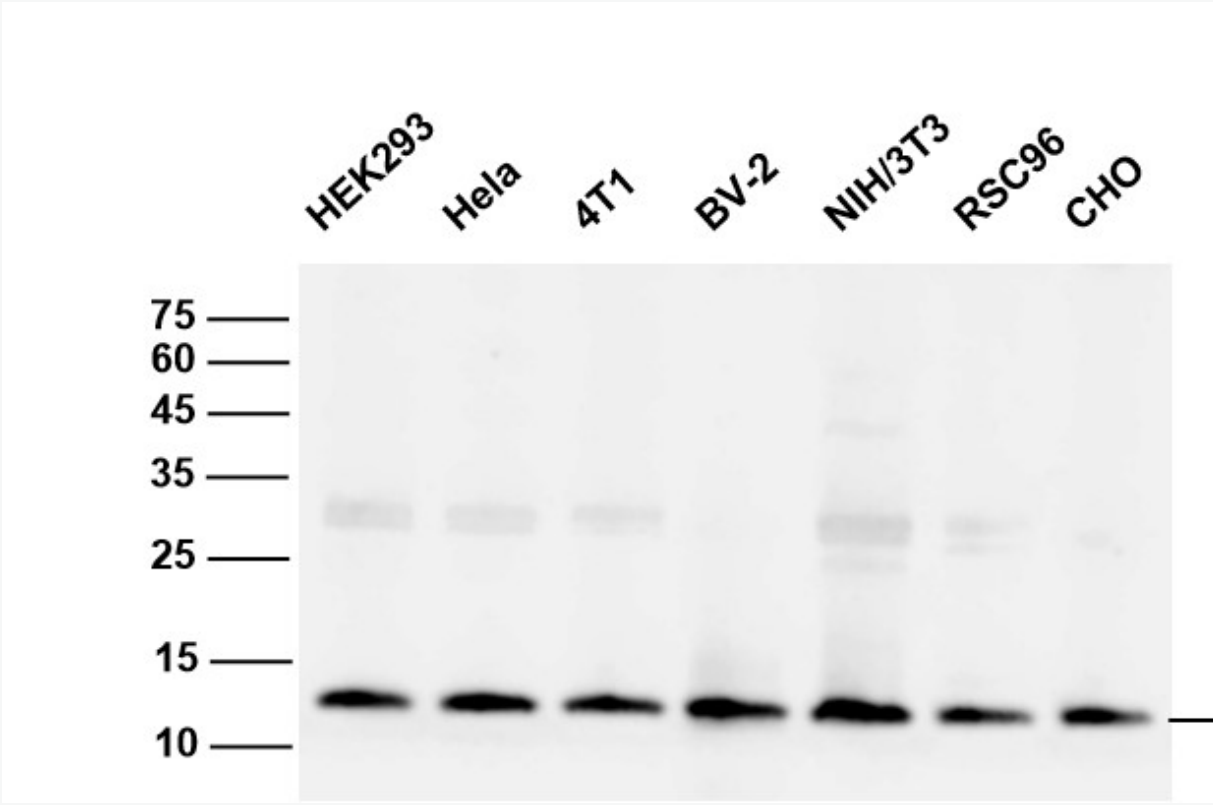

Various lysates were subjected to SDS PAGE followed by WB with SLM-33042M (Anti-Hist

1:20000 incubated at 4℃ overnight.

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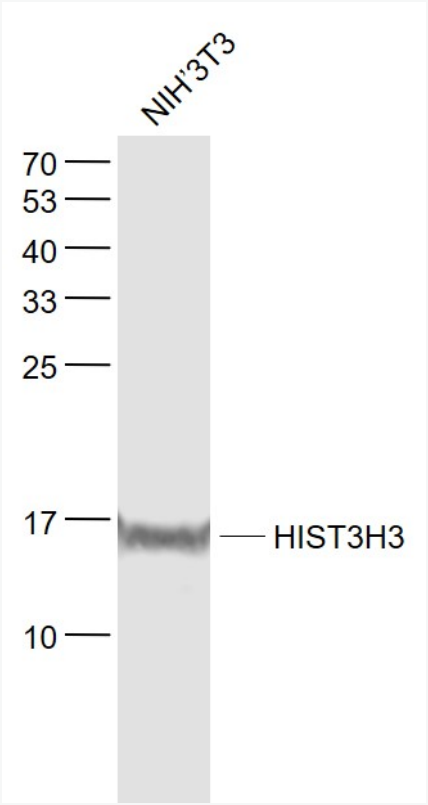

Sample:

NIH/3T3(Mouse) Cell Lysate at 30 ug

Primary: Anti- Histone H3/HIST3H3 (SLM-33042M) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 15 kD

Observed band size: 15 kD

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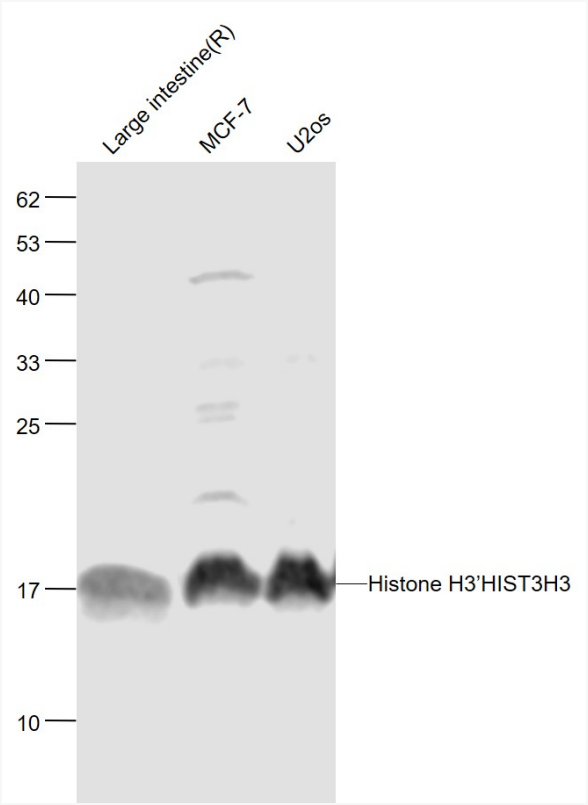

Sample:

Large intestine(Rat) Lysate at 40 ug

MCF-7(Human) Cell Lysate at 30 ug

U2os(Human) Cell Lysate at 30 ug

Primary: Anti-Histone H3/HIST3H3 (SLM-33042M) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti- Mouse IgG at 1/20000 dilution

Predicted band size: 15 kD

Observed band size: 15 kD

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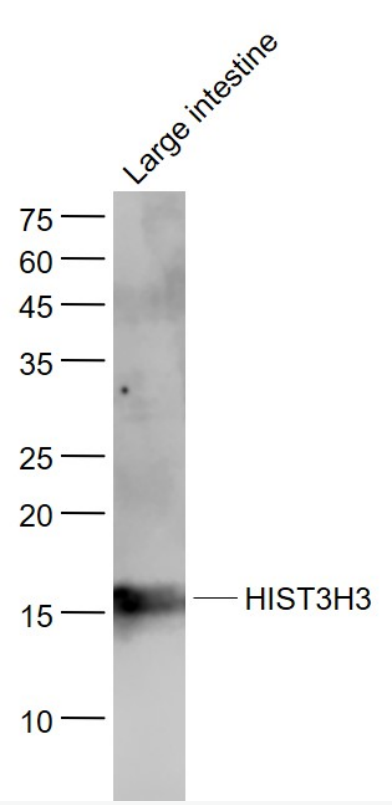

Sample:

Large intestine (Mouse) Lysate at 40 ug

Primary: Anti- Histone H3/HIST3H3 (SLM-33042M) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 15 kD

Observed band size: 15 kD

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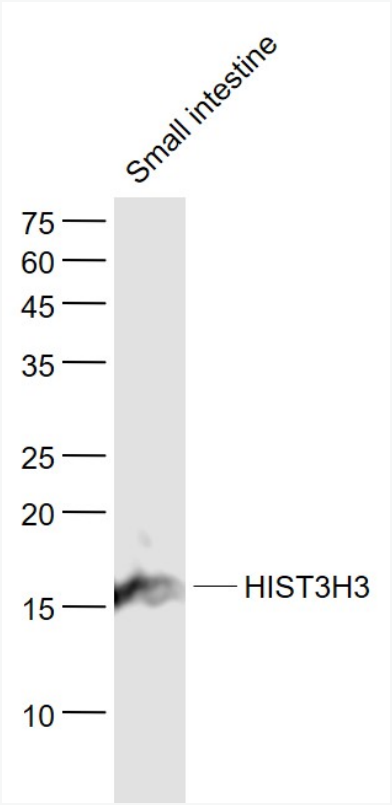

Sample:

Small intestine (Mouse) Lysate at 40 ug

Primary: Anti- Histone H3/HIST3H3 (SLM-33042M) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 15 kD

Observed band size: 15 kD

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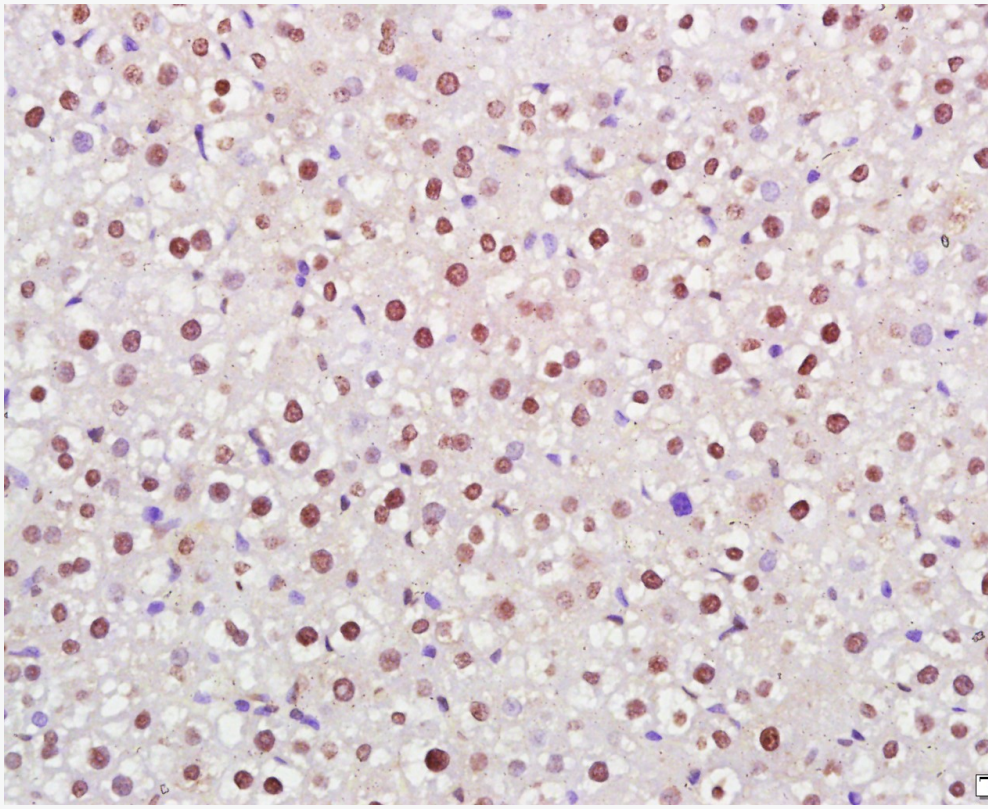

Paraformaldehyde-fixed, paraffin embedded (Rat liver); Antigen retrieval by boiling in sodiun
for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking
serum) at 37°C for 30min; Antibody incubation with (HIST3H3) Monoclonal Antibody, Unco
(SLM-33042M) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for
staining.

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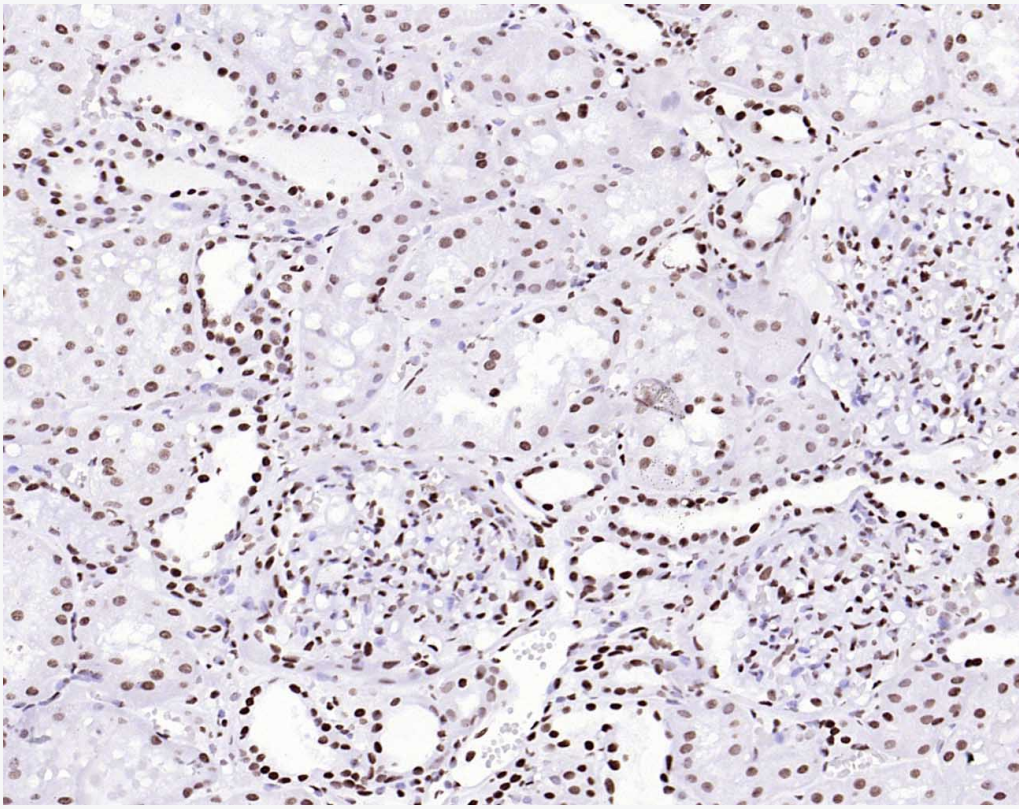

Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in s
(pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; B
goat serum) at 37°C for 30min; Antibody incubation with (Histone H3 (Nuclear Loading Cont
Antibody, Unconjugated (SLM-33042M) at 1:200 overnight at 4°C, followed by operating acc
Kit(Mouse)(sp-0024) instructionsand DAB staining.

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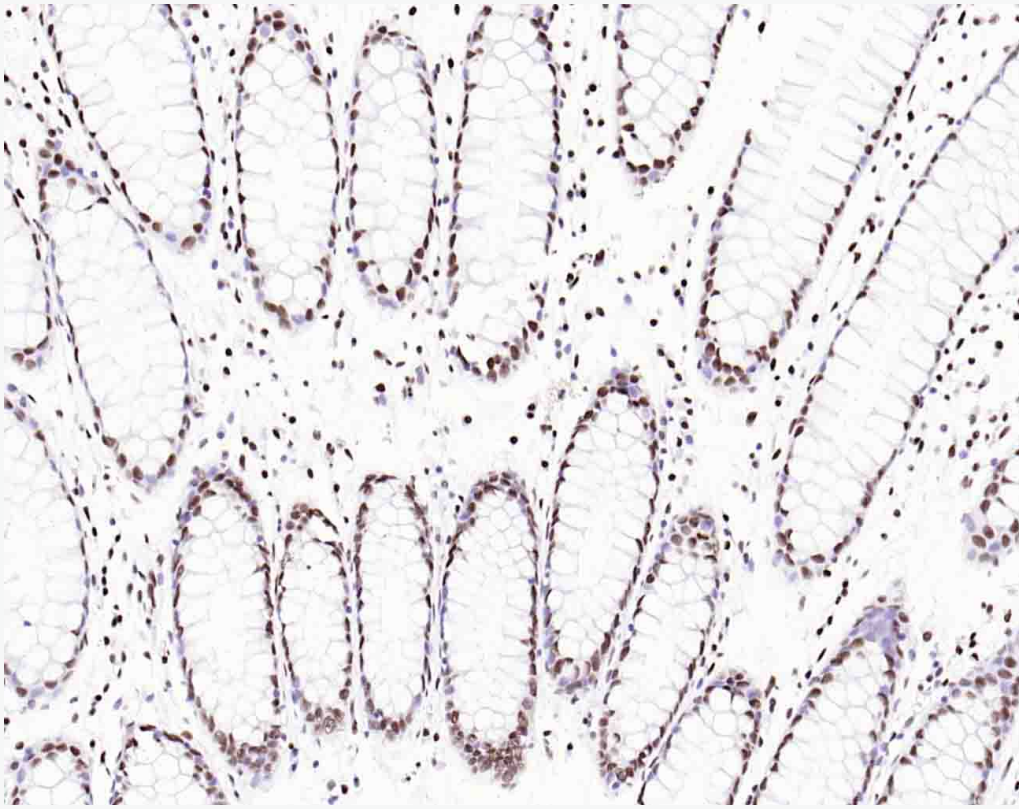

Paraformaldehyde-fixed, paraffin embedded (human colon); Antigen retrieval by boiling in so
(pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; B
goat serum) at 37°C for 30min; Antibody incubation with (Histone H3 (Nuclear Loading Cont
Antibody, Unconjugated (SLM-33042M) at 1:200 overnight at 4°C, followed by operating acc
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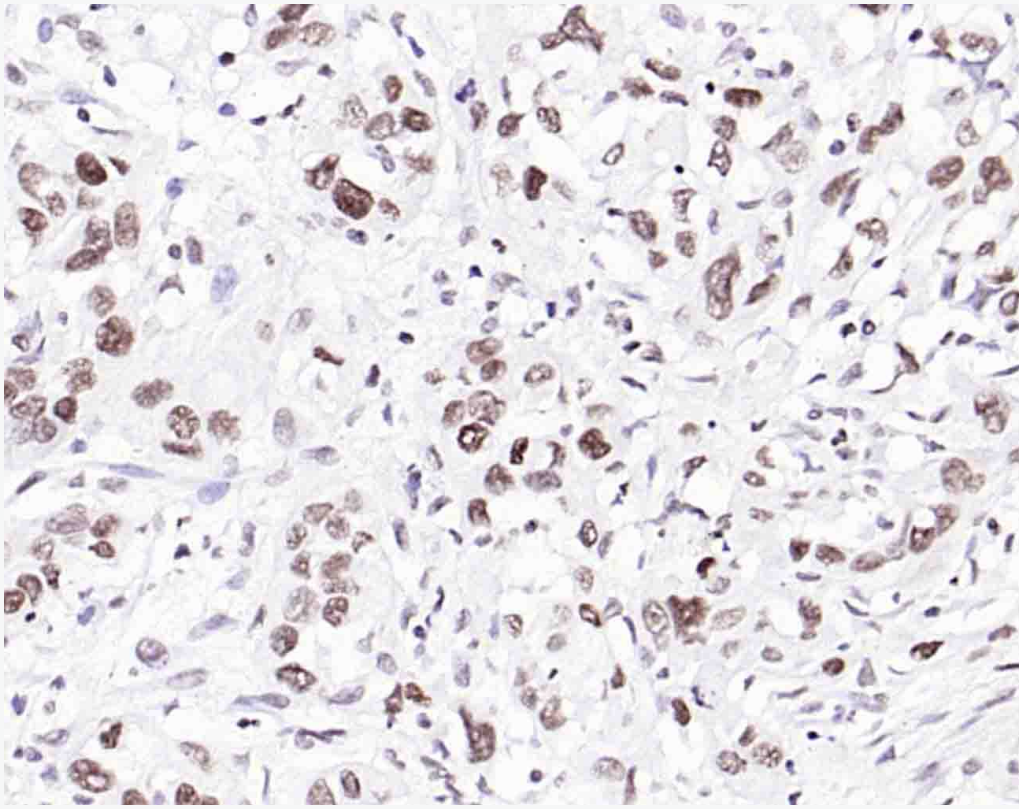

Paraformaldehyde-fixed, paraffin embedded (human gastric carcinoma); Antigen retrieval by b
buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min
(normal goat serum) at 37°C for 30min; Antibody incubation with (Histone H3 (Nuclear Load
Monoclonal Antibody, Unconjugated (SLM-33042M) at 1:200 overnight at 4°C, followed by
SP Kit(Mouse)(sp-0024) instructionsand DAB staining.

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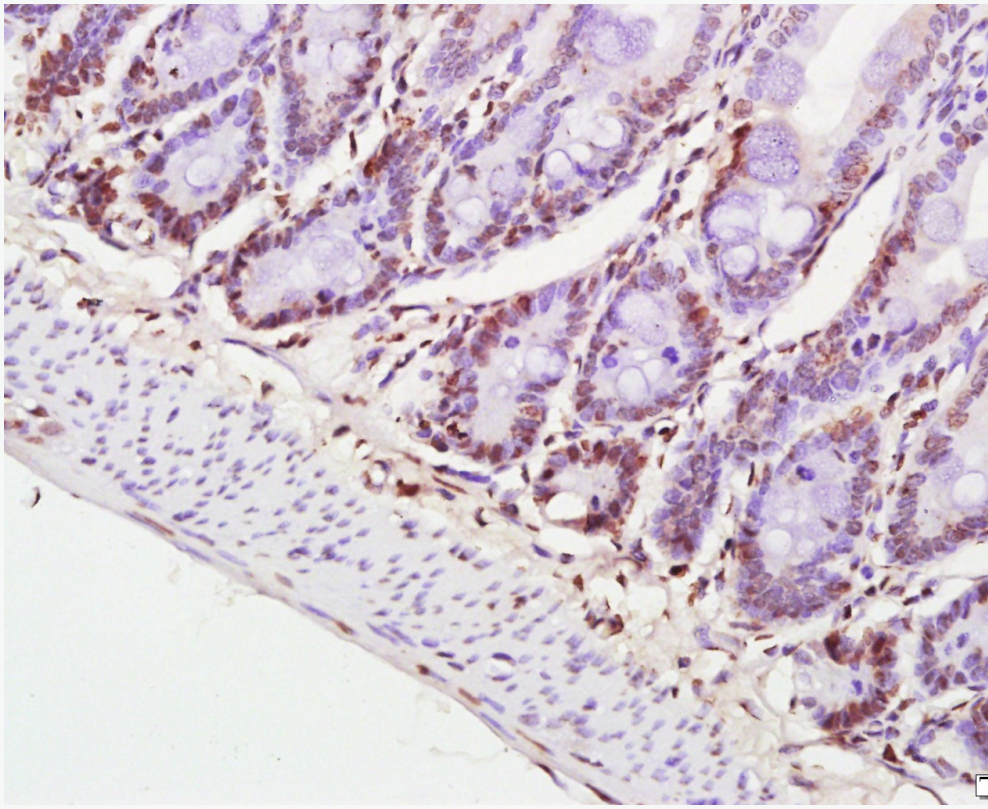

Paraformaldehyde-fixed, paraffin embedded (Rat colon); Antigen retrieval by boiling in sodiu
for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking
serum) at 37°C for 30min; Antibody incubation with (HIST3H3) Monoclonal Antibody, Unco
(SLM-33042M) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for
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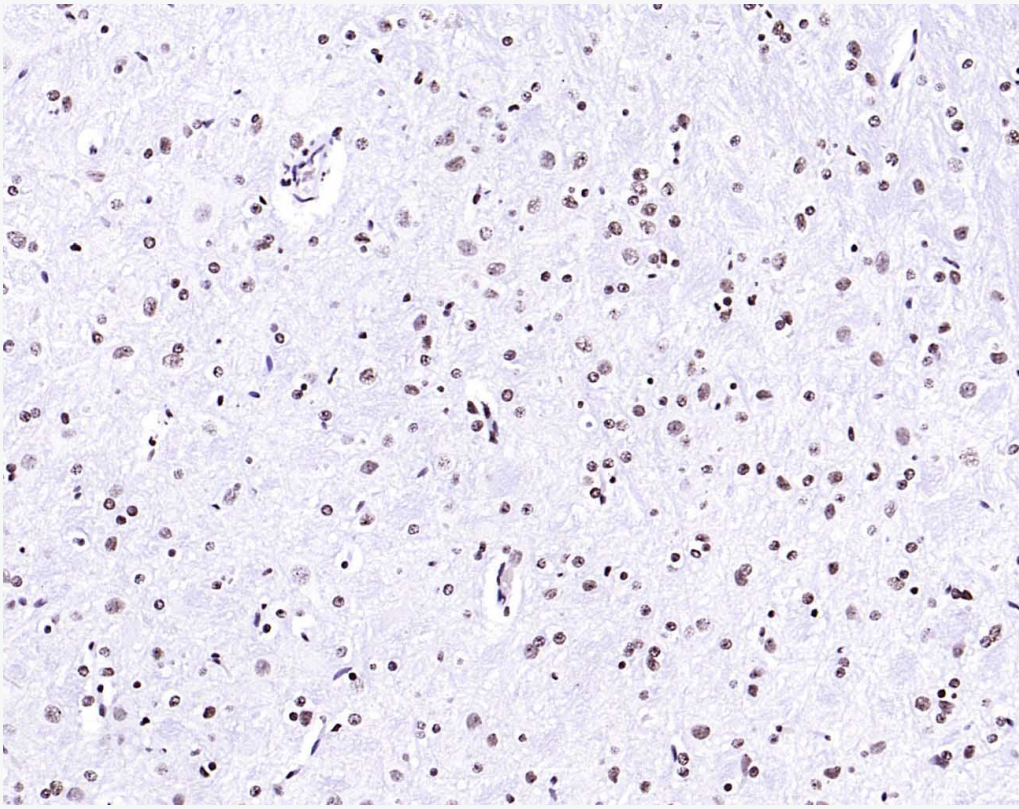

Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodiun
for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking
serum) at 37°C for 30min; Antibody incubation with (Histone H3 (Nuclear Loading Control))
Unconjugated (SLM-33042M) at 1:200 overnight at 4°C, followed by operating according to S
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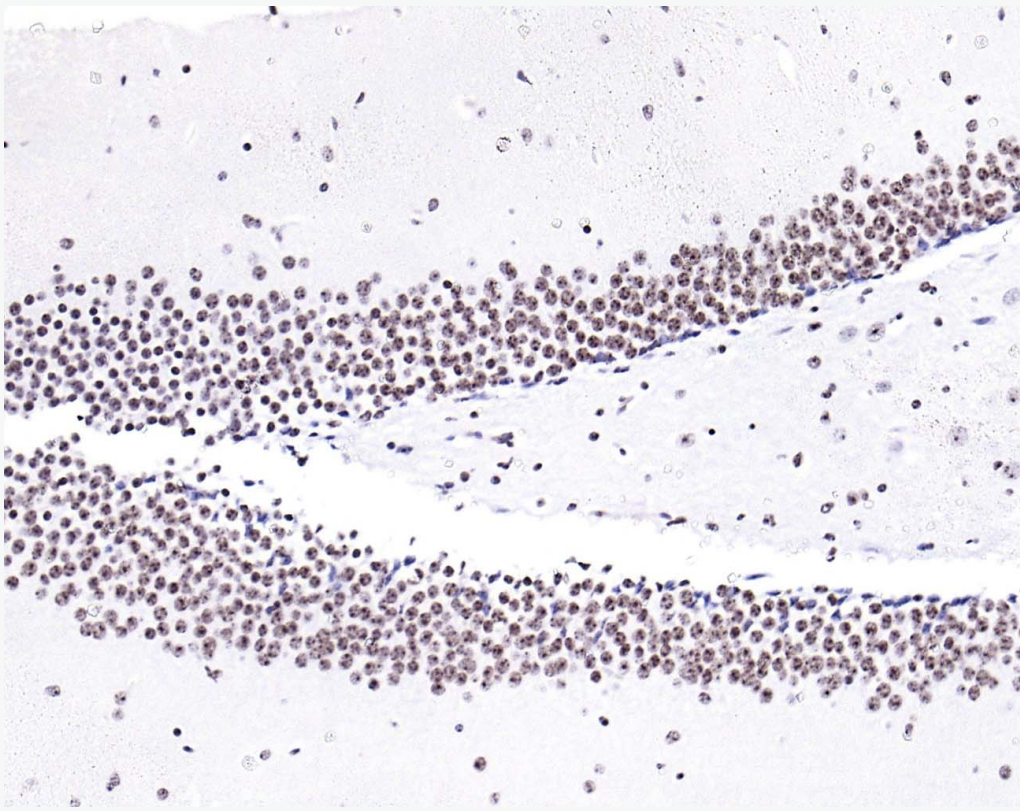

Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in so
(pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; B
goat serum) at 37°C for 30min; Antibody incubation with (Histone H3 (Nuclear Loading Cont
Antibody, Unconjugated (SLM-33042M) at 1:200 overnight at 4°C, followed by operating acc
Kit(Mouse)(sp-0024) instructionsand DAB staining.

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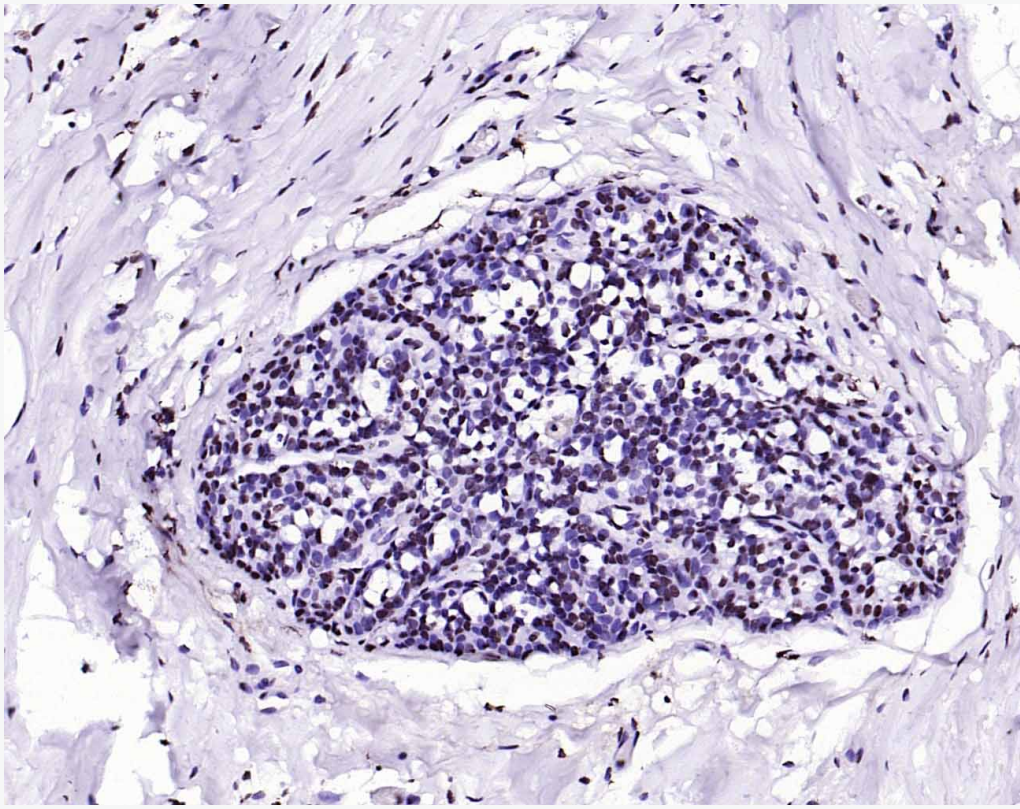

Paraformaldehyde-fixed, paraffin embedded (human breast carcinoma); Antigen retrieval by b
buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min
(normal goat serum) at 37°C for 30min; Antibody incubation with (Histone H3 (Nuclear Load
Monoclonal Antibody, Unconjugated (SLM-33042M) at 1:200 overnight at 4°C, followed by
SP Kit(Mouse)(sp-0024) instructionsand DAB staining.

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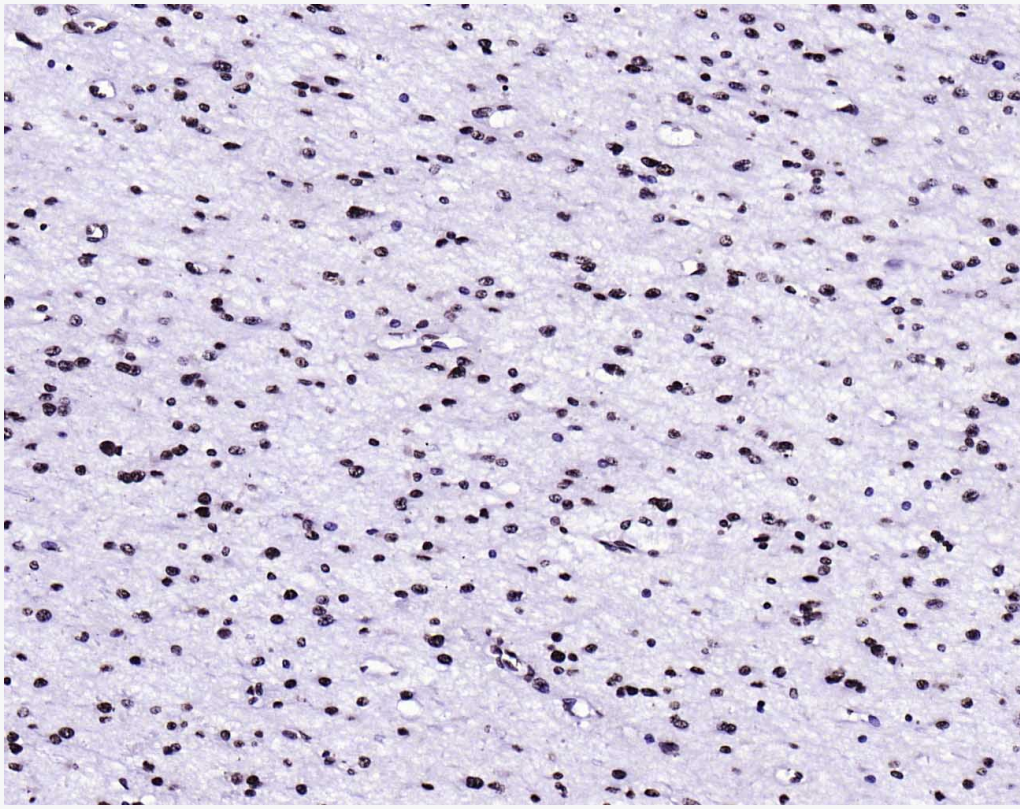

Paraformaldehyde-fixed, paraffin embedded (human brain); Antigen retrieval by boiling in so
(pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; B
goat serum) at 37°C for 30min; Antibody incubation with (Histone H3 (Nuclear Loading Cont
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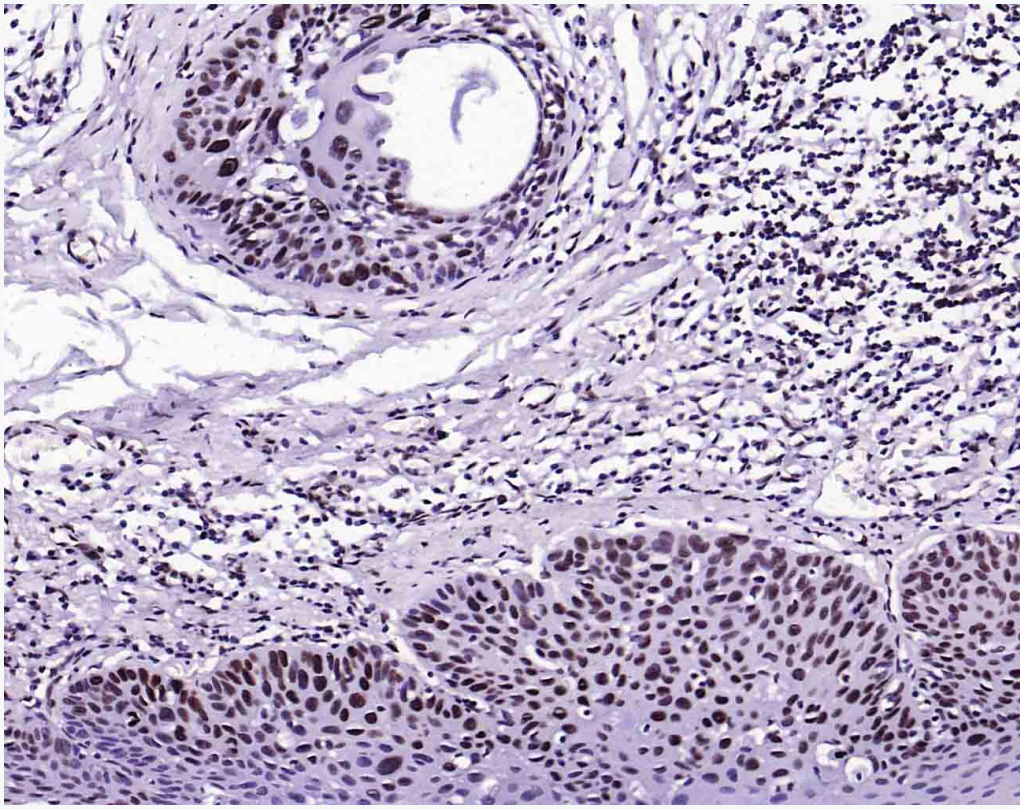

Paraformaldehyde-fixed, paraffin embedded (human laryngeal carcinoma); Antigen retrieval b
citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for
buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Histone H3 (Nuclea
Monoclonal Antibody, Unconjugated (SLM-33042M) at 1:200 overnight at 4°C, followed by
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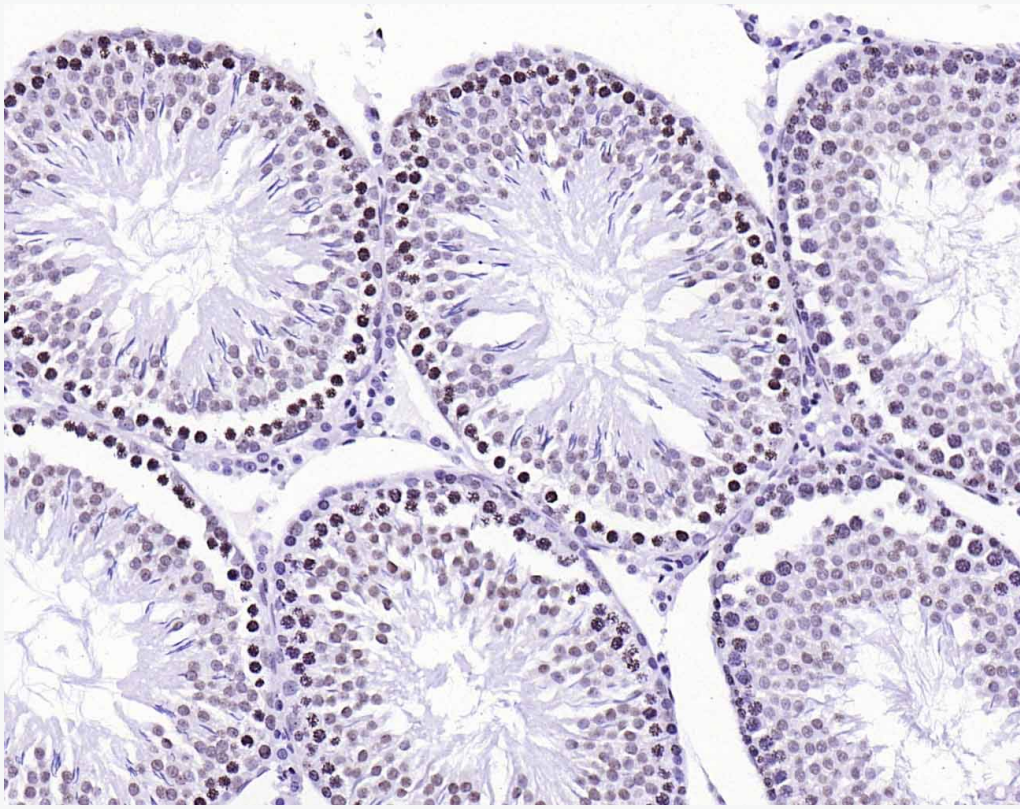

Paraformaldehyde-fixed, paraffin embedded (rat testis); Antigen retrieval by boiling in sodiun
for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking
serum) at 37°C for 30min; Antibody incubation with (Histone H3 (Nuclear Loading Control))
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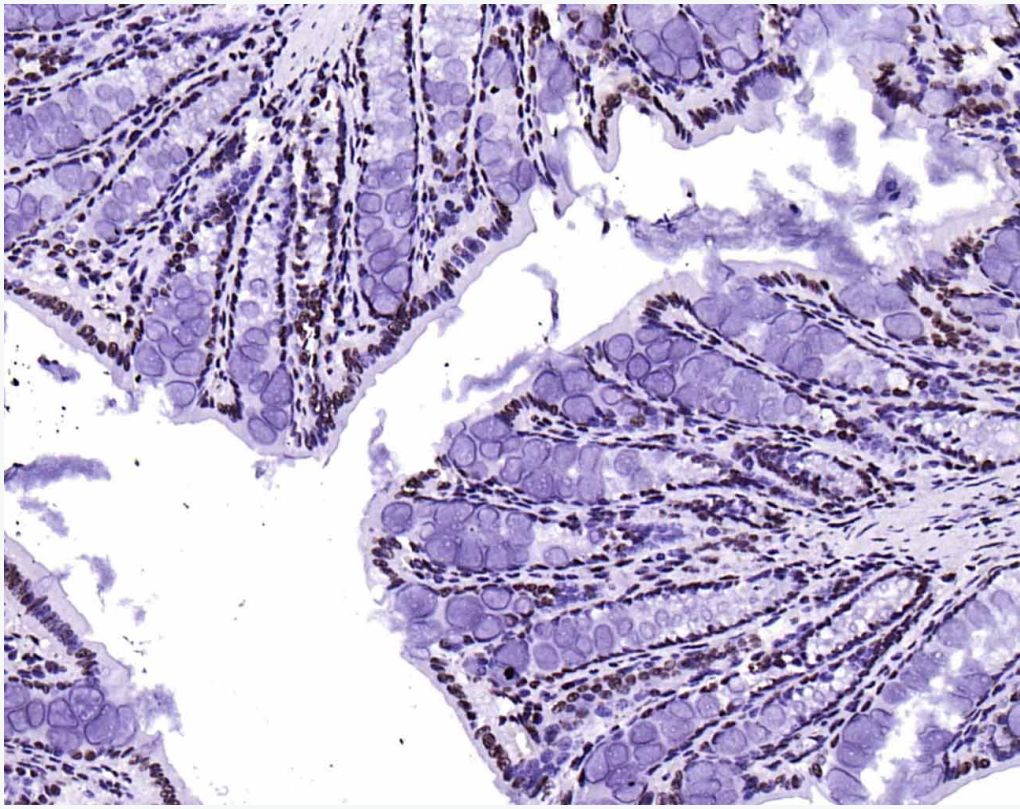

Paraformaldehyde-fixed, paraffin embedded (mouse colon); Antigen retrieval by boiling in so
(pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; B
goat serum) at 37°C for 30min; Antibody incubation with (Histone H3 (Nuclear Loading Cont
Antibody, Unconjugated (SLM-33042M) at 1:200 overnight at 4°C, followed by operating acc
Kit(Mouse)(sp-0024) instructionsand DAB staining.

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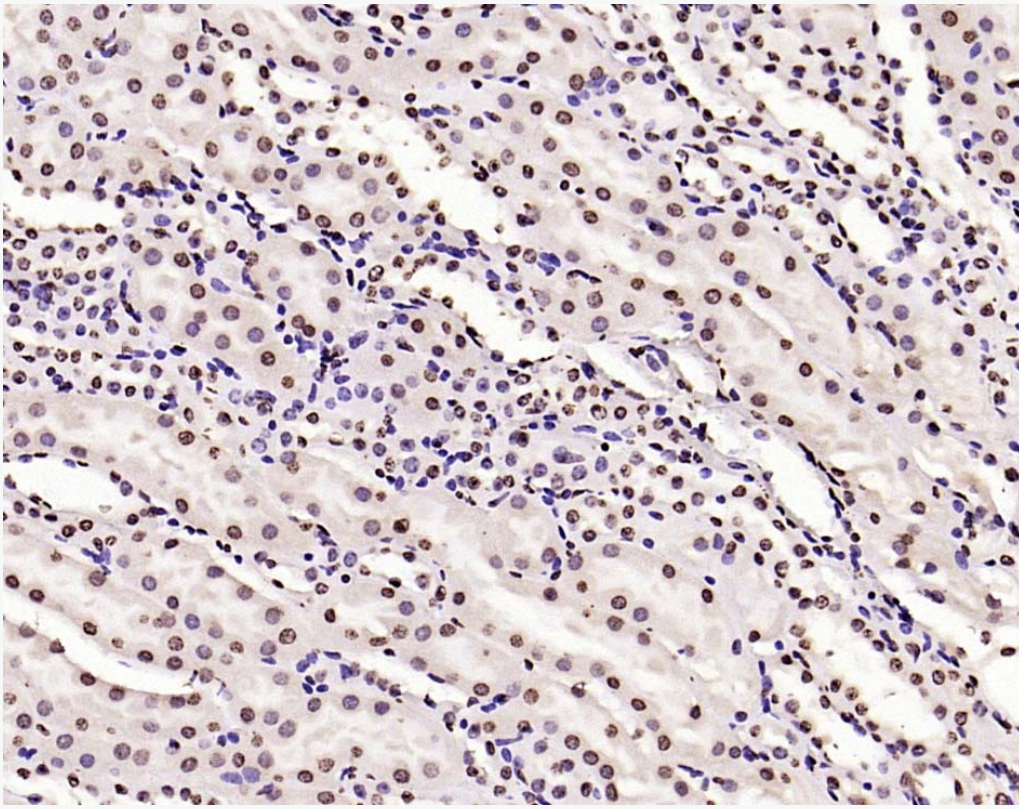

Paraformaldehyde-fixed, paraffin embedded (rat kidney); Antigen retrieval by boiling in sodiu
for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking
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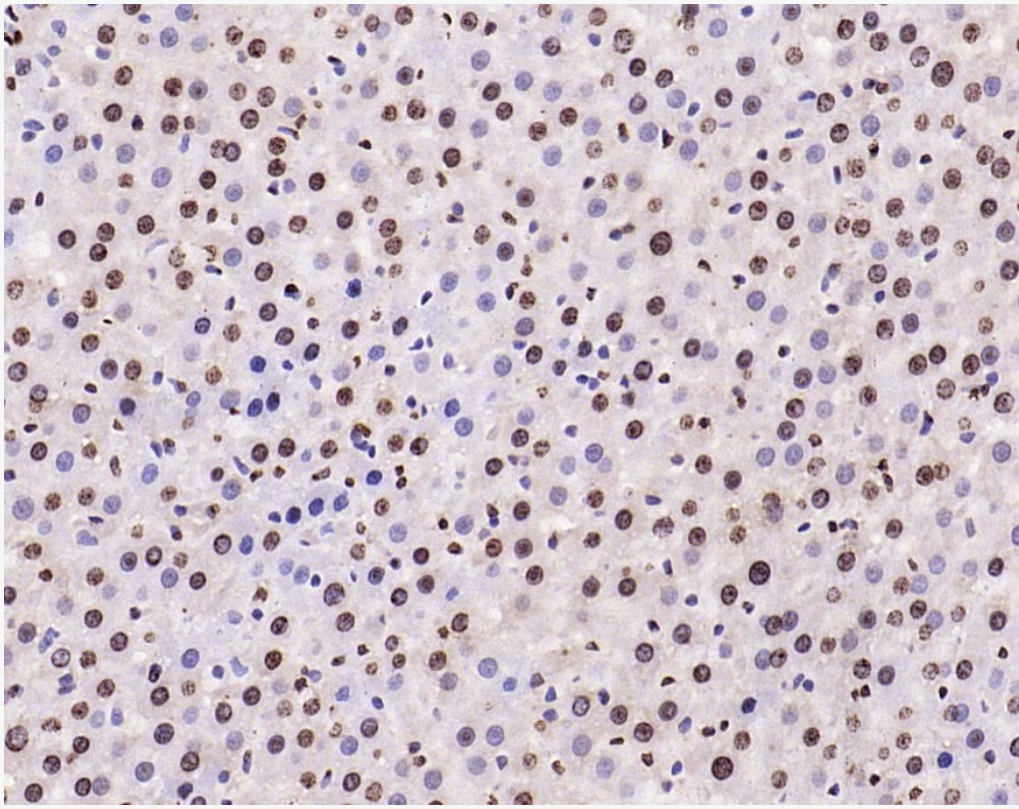

Paraformaldehyde-fixed, paraffin embedded (rat liver); Antigen retrieval by boiling in sodium
for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking
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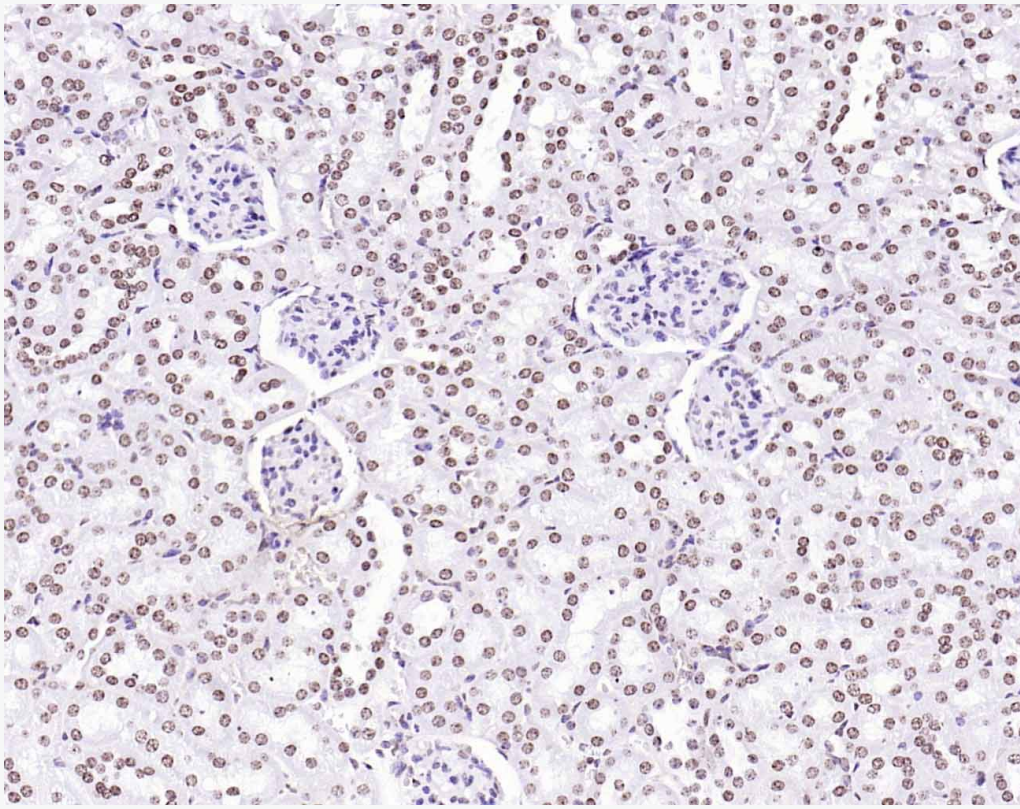

Paraformaldehyde-fixed, paraffin embedded (mouse kidney); Antigen retrieval by boiling in s
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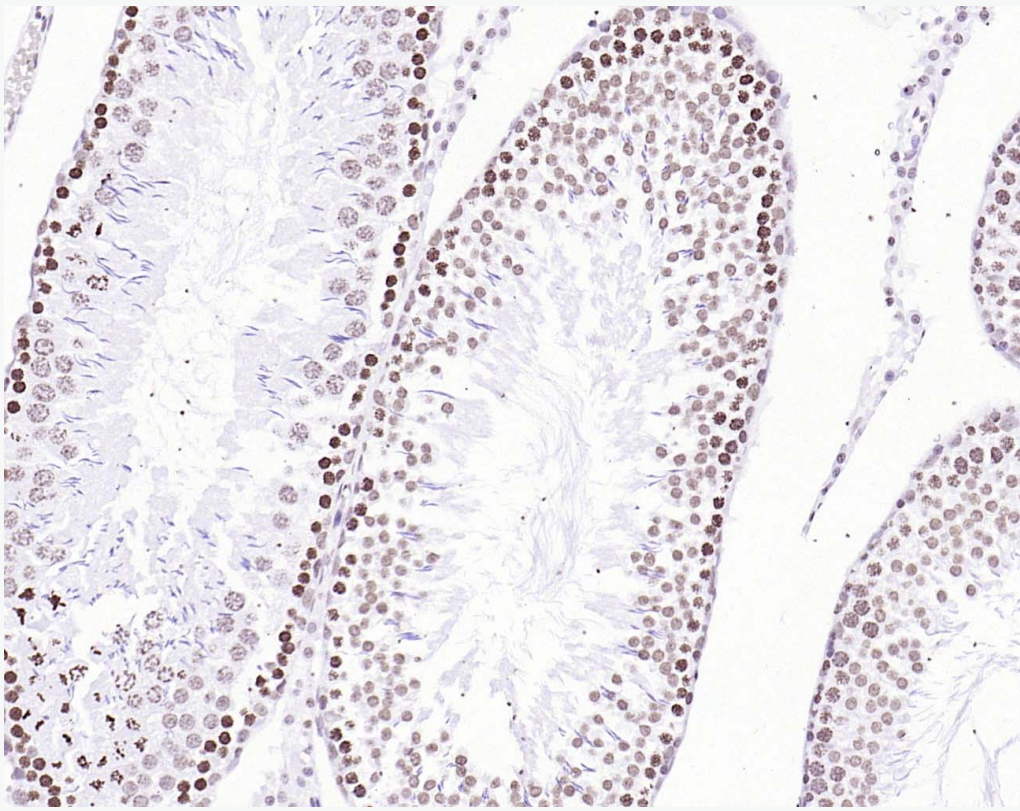

Paraformaldehyde-fixed, paraffin embedded (rat testis); Antigen retrieval by boiling in sodiun
for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking
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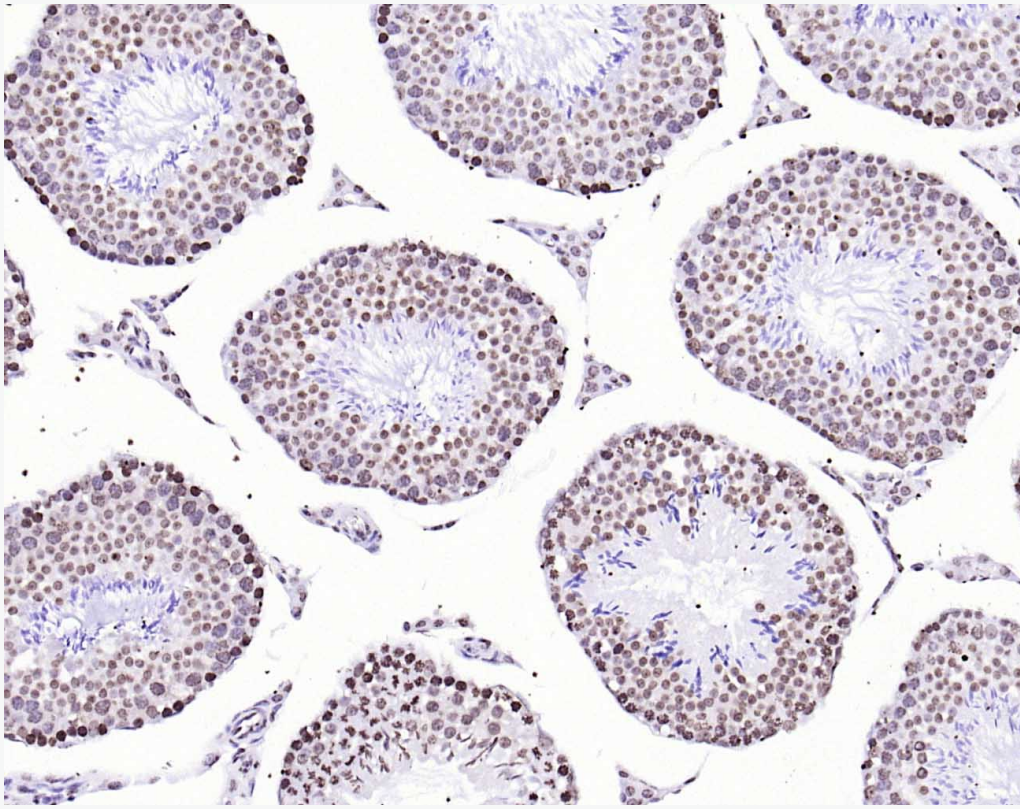

Paraformaldehyde-fixed, paraffin embedded (mouse testis); Antigen retrieval by boiling in soc
(pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; B
goat serum) at 37°C for 30min; Antibody incubation with (Histone H3 (Nuclear Loading Cont
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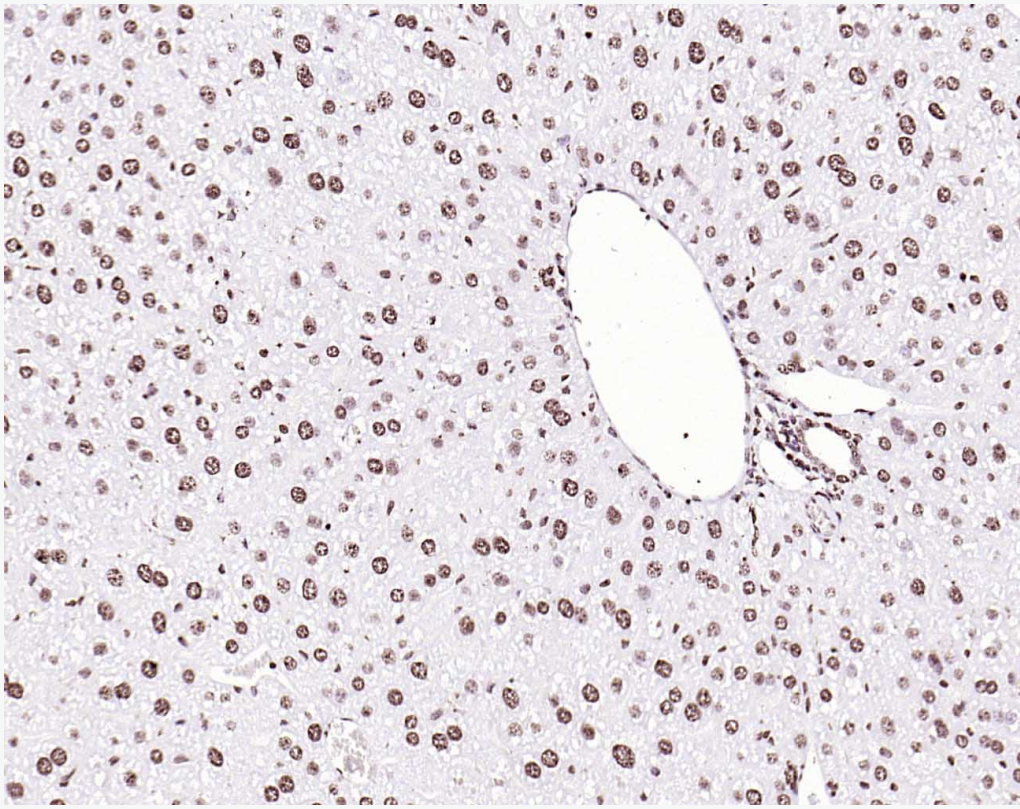

Paraformaldehyde-fixed, paraffin embedded (mouse liver); Antigen retrieval by boiling in sod
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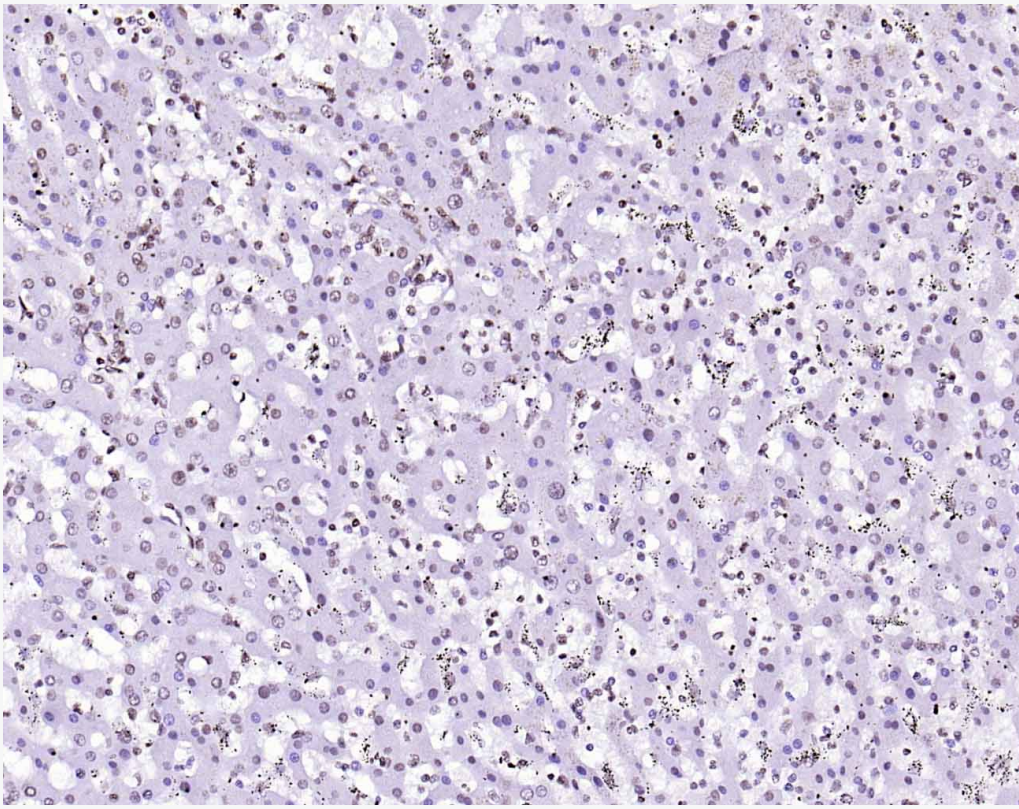

Paraformaldehyde-fixed, paraffin embedded (human liver); Antigen retrieval by boiling in soc
(pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; B
goat serum) at 37°C for 30min; Antibody incubation with (Histone H3 (Nuclear Loading Cont
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