SunLong Biotech Co.,LTD
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Mouse Anti-Vimentin antibody

SLM-33170M

Product Name	**[KO validated anti]** Vimentin
Chinese Name	波形蛋白单克隆抗体
Alias	FLJ36605; OTTHUMP00000019224; VIM; VIME_HUMAN; Vimentin.
Research Area	Tumour Developmental biology Neurobiology Signal transduction Stem cells Cell type markers
Immunogen Species	Mouse
Clonality	Monoclonal
Clone NO.	3B7
React Species	Human
Applications	WB=1:1000-10000,IHC-P=1:200-1000,IHC-F=1:200-1000,ICC/IF=1:100-500,IF=1:200-1000,F （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	53kDa
Cellular localization	cytoplasmic Extracellular matrix
Form	Liquid
Concentration	1mg/ml
immunogen	Recombinant human Vimentin Protein
Lsotype	IgG
Purification	affinity purified by Protein G
Buffer Solution	Human1M TBS(pH7.4) with 1% BSA, Human3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C 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 applications.
PubMed	PubMed
Product	This gene encodes a member of the intermediate filament family. Intermediate filamentents, alor

Detail

microtubules and actin microfilaments, make up the cytoskeleton. The protein encoded by this g for maintaining cell shape, integrity of the cytoplasm, and stabilizing cytoskeletal interactions. It the immune response, and controls the transport of low-density lipoprotein (LDL)-derived chole lysosome to the site of esterification. It functions as an organizer of a number of critical proteins attachment, migration, and cell signaling. Mutations in this gene causes a dominant, pulverulent by RefSeq, Jun 2009]

Function:
Vimentins are class-III intermediate filaments found in various non-epithelial cells, especially m Vimentin is attached to the nucleus, endoplasmic reticulum, and mitochondria, either laterally or Involved with LARP6 in the stabilization of type I collagen mRNAs for CO1A1 and CO1A2.

Subunit:
Homopolymer assembled from elementary dimers. Interacts with HCV core protein. Interacts wi SYNM. Interacts (via rod region) with PLEC (via CH 1 domain) (By similarity). Interacts with S with STK33. Interacts with LARP6. Interacts with RAB8B (By similarity).

Subcellular Location:
Cytoplasm.

Tissue Specificity:
Highly expressed in fibroblasts, some expression in T- and B-lymphocytes, and little or no expre lymphoma cell lines. Expressed in many hormone-independent mammary carcinoma cell lines.

Post-translational modifications:
Filament disassembly during mitosis is promoted by phosphorylation at Ser-55 as well as by nest prominent phosphoproteins in various cells of mesenchymal origin. Phosphorylation is enhanced division, at which time vimentin filaments are significantly reorganized. Phosphorylation by PK formation of filaments. Phosphorylated at Ser-56 by CDK5 during neutrophil secretion in the cy Phosphorylated by STK33.

Similarity:
Belongs to the intermediate filament family.

SWISS:
P08670

Gene ID:
7431

Database links:

Entrez Gene: 7431 Human

Entrez Gene: 22352 Mouse

Entrez Gene: 81818 Rat

Omim: 193060 Human

SwissProt: P08670 Human

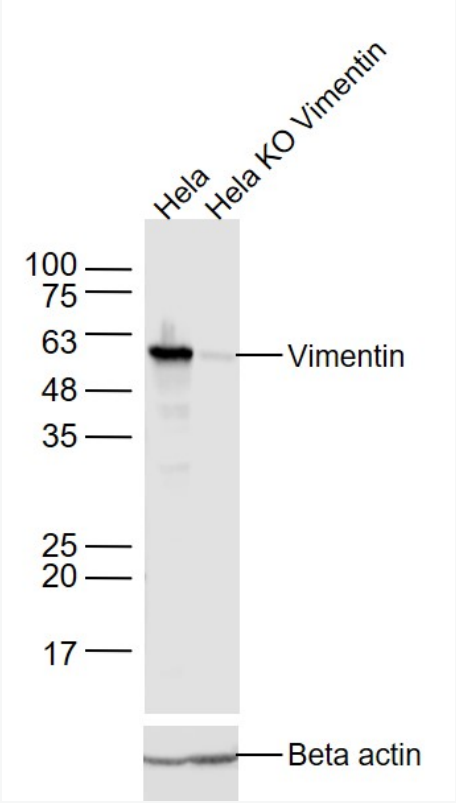
SwissProt: P20152 Mouse

SwissProt: P31000 Rat

Unigene: 455493 Human

Vimentin—波形蛋白。是五种主要的中间丝之一，存在于各种正常和病理性间质来源的细胞、endothelial cells、lymphocyte 等正常细胞和肉瘤、淋巴瘤、黑色素瘤等 Tumour。波形 Cytoskeleton 完整性的蛋白之一。

Product Picture



Sample:

Hela(Human) Cell Lysate at 30 ug

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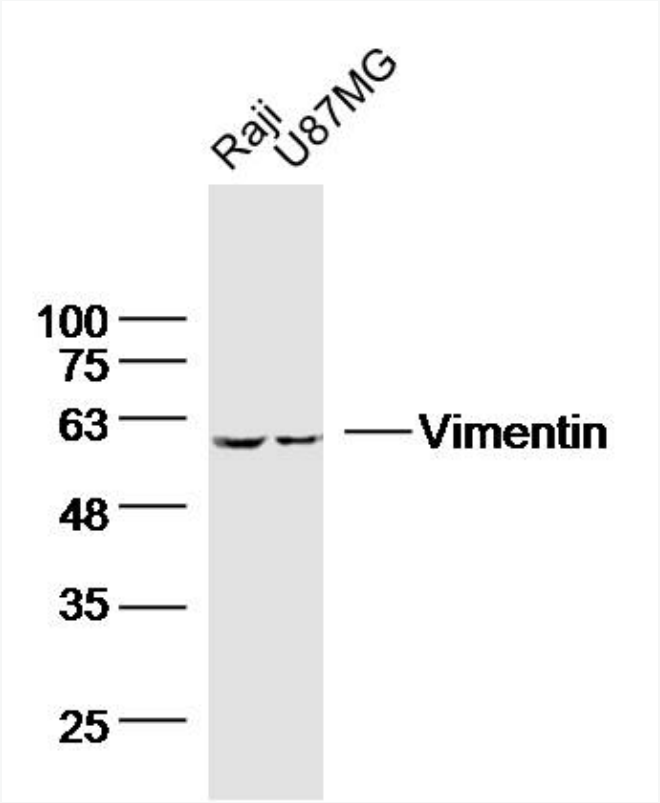
Hela KO Vimentin (Human) Cell Lysate at 30 ug

Primary: Anti- Vimentin (SLM-33170M) at 1/1000 dilution

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

Predicted band size: 53 kD

Observed band size: 58 kD



Sample:

Raji Cell Lysate at 40 ug

U87MG Cell Lysate at 40 ug

Primary: Anti- Vimentin (SLM-33170M)at 1/1000 dilution

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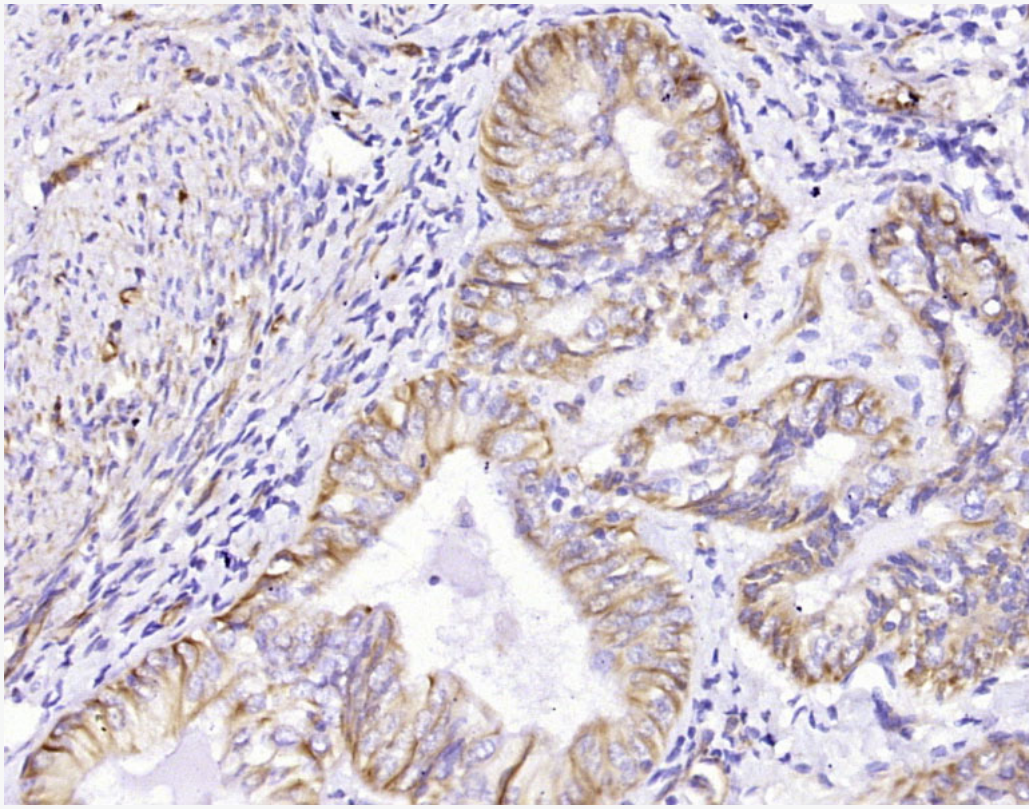
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 53kD

Observed band size: 58kD



Paraformaldehyde-fixed, paraffin embedded (Human cervical cancer); Antigen retrieval by bo
citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for
Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Vimentin)
Antibody, Unconjugated (ascites of SLM-33170M 3B7) at 1:2000 overnight at 4°C, followed
according to SP Kit(Mouse) (sp-0024) instructions and DAB staining.

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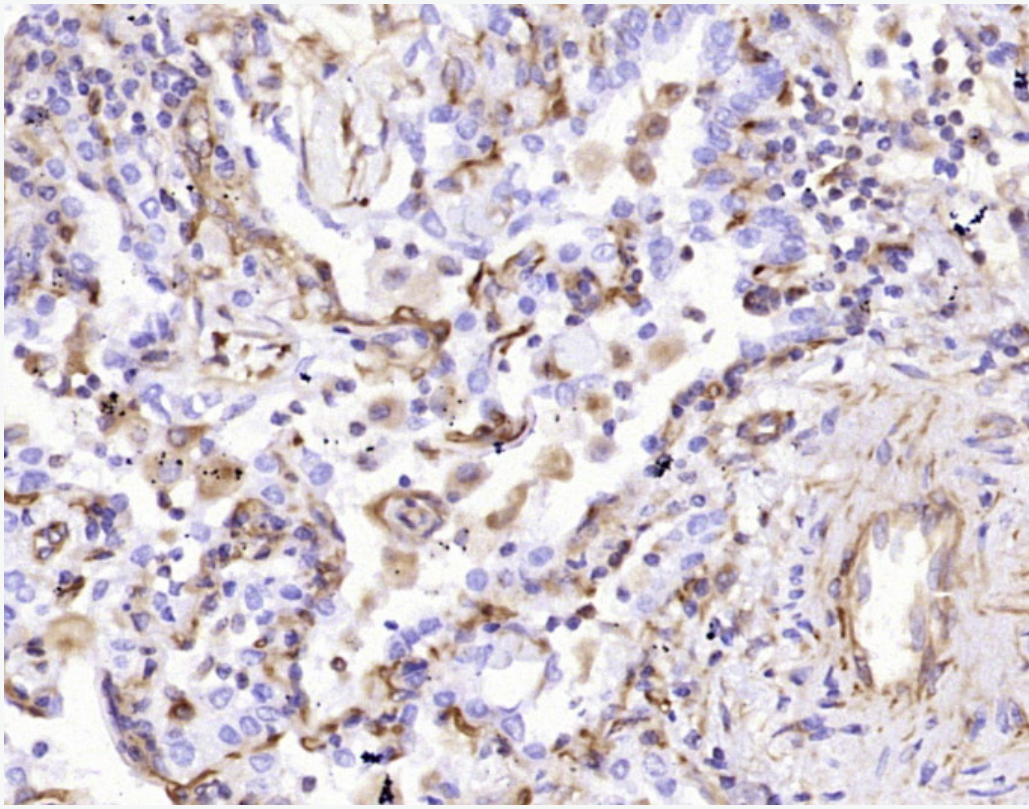

Paraformaldehyde-fixed, paraffin embedded (Human lung cancer); Antigen retrieval by boilin citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Vimentin) Antibody, Unconjugated (ascites of SLM-33170M 3B7) at 1:2000 overnight at 4°C, followed according to SP Kit(Mouse) (sp-0024) instructions and DAB staining.

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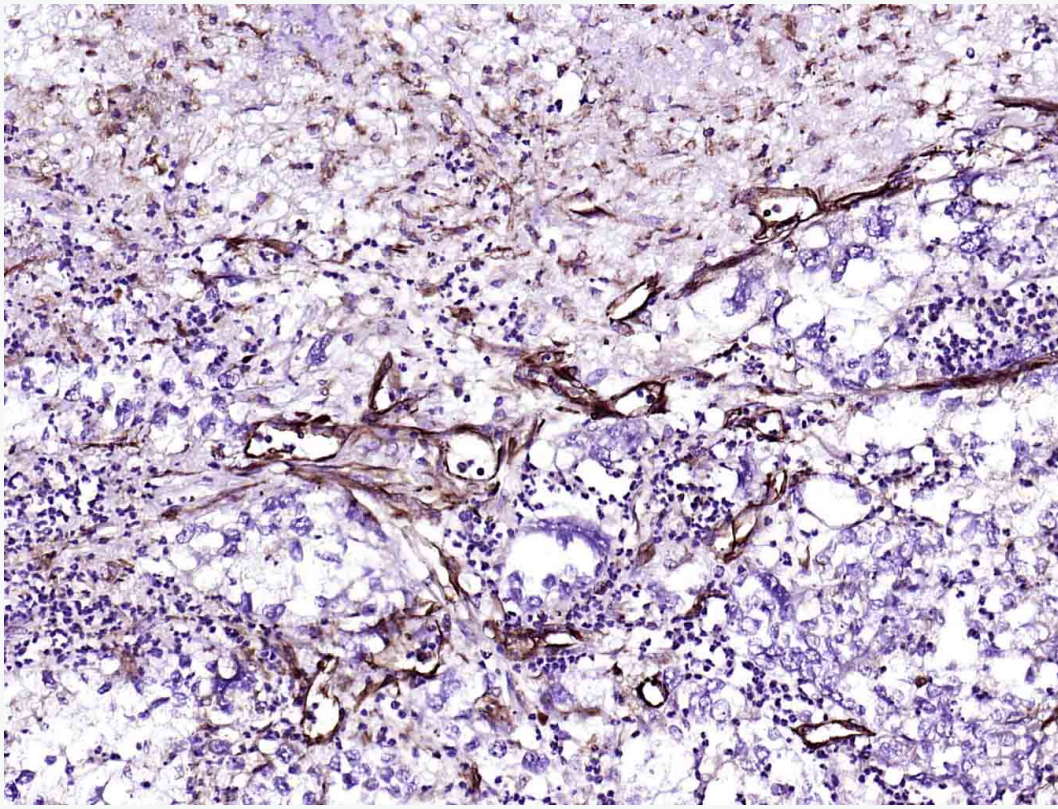

Paraformaldehyde-fixed, paraffin embedded (human endometrial carcinoma); Antigen retrieva
sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen perox
minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (
Monoclonal Antibody, Unconjugated (SLM-33170M) at 1:200 overnight at 4°C, followed by
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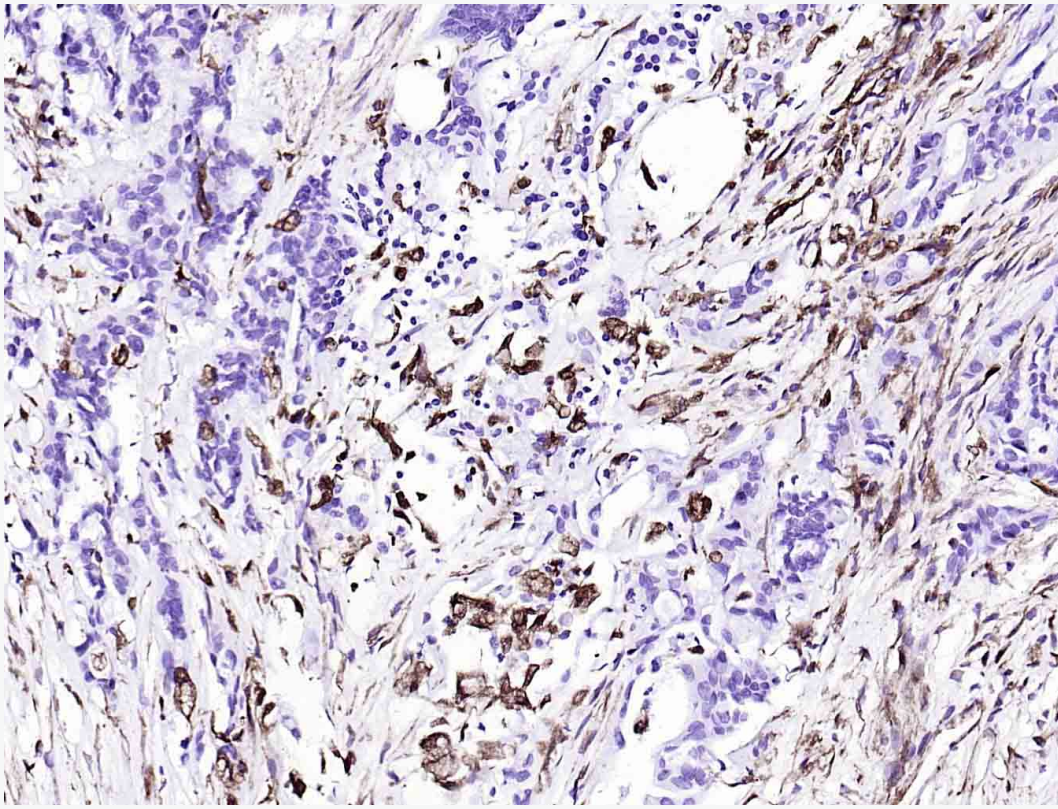

Paraformaldehyde-fixed, paraffin embedded (human colon); Antigen retrieval by boiling in so
buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min
buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Vimentin) Monoclo
Unconjugated (SLM-33170M) at 1:200 overnight at 4°C, followed by operating according to S
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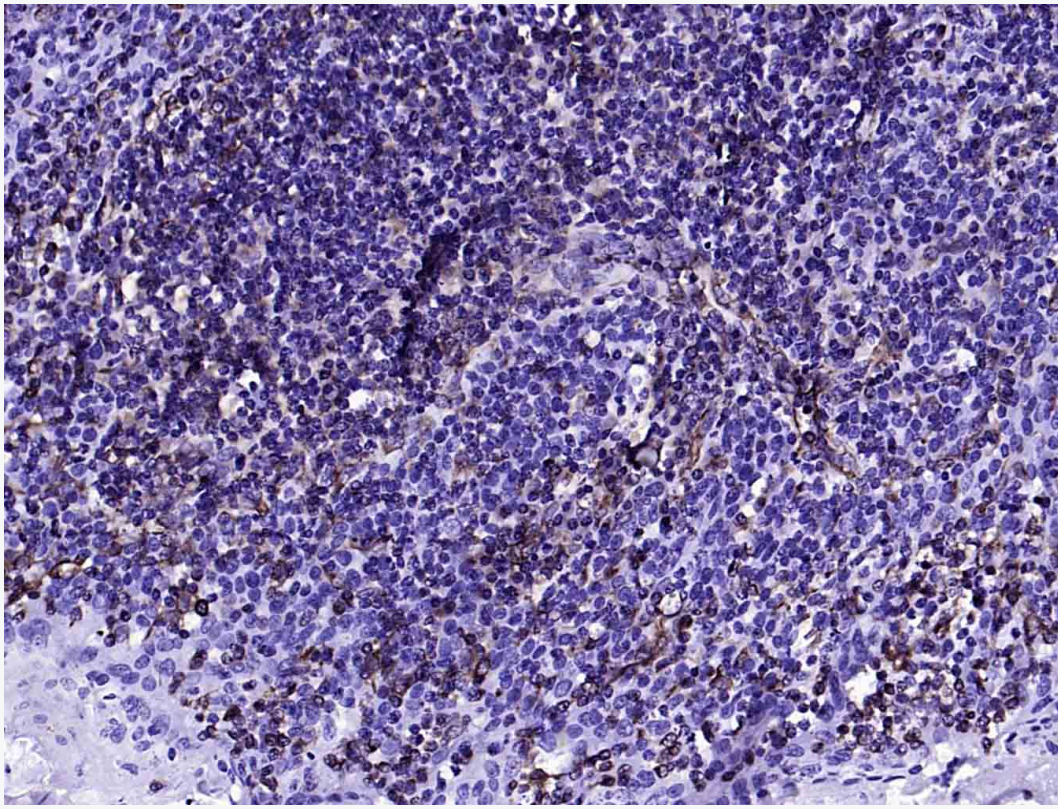

Paraformaldehyde-fixed, paraffin embedded (human tonsil); Antigen retrieval by boiling in so
buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min
buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Vimentin) Monoclo
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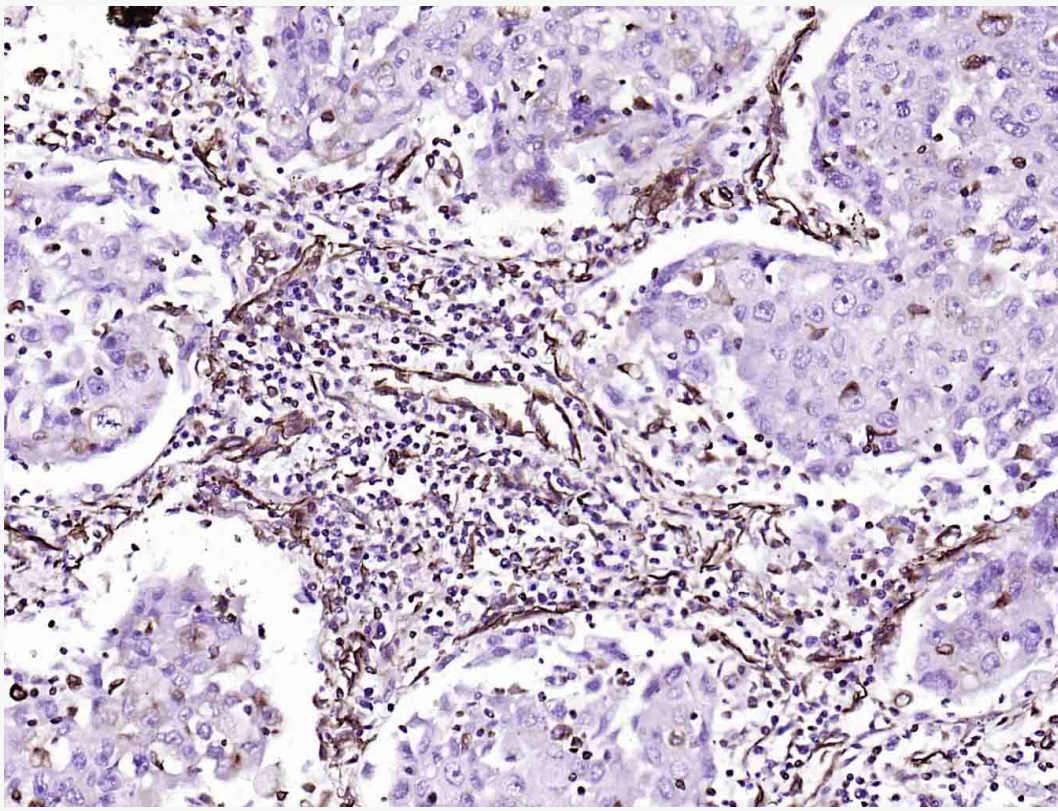

Paraformaldehyde-fixed, paraffin embedded (human lung carcinoma); Antigen retrieval by bo
citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for
Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Vimentin)
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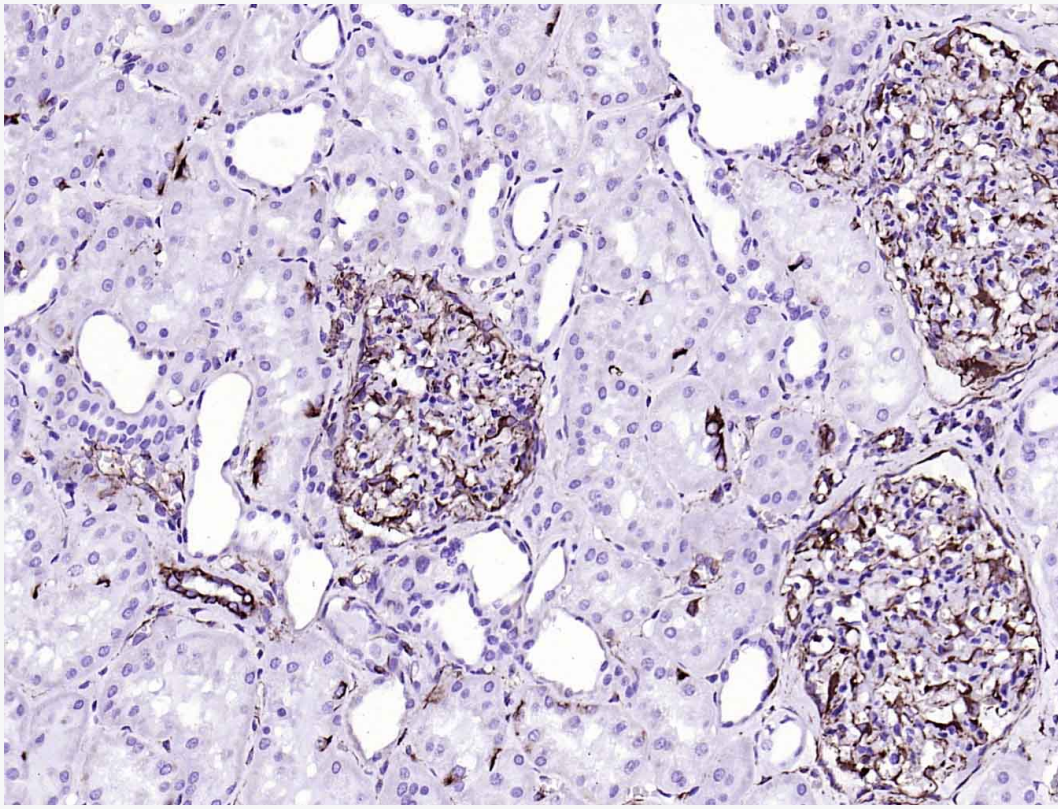

Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in
buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min
buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Vimentin) Monoclo
Unconjugated (SLM-33170M) at 1:200 overnight at 4°C, followed by operating according to
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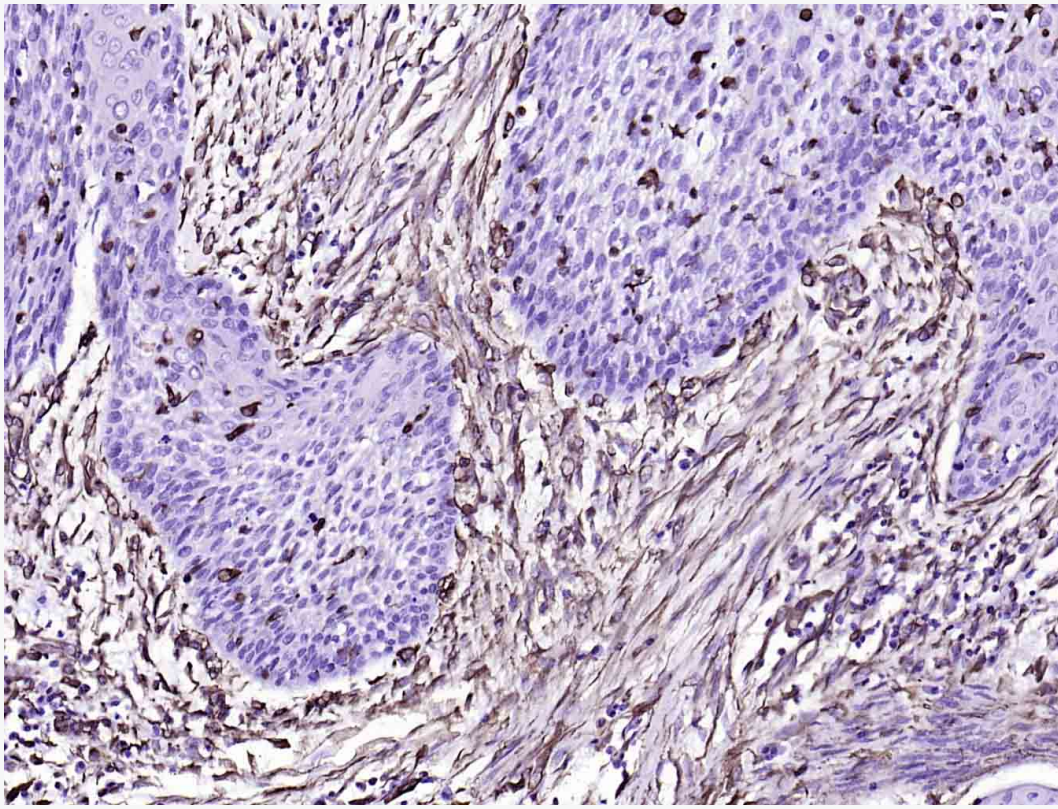

Paraformaldehyde-fixed, paraffin embedded (human cervical carcinoma); Antigen retrieval by sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen perox minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Monoclonal Antibody, Unconjugated (SLM-33170M) at 1:200 overnight at 4°C, followed by according to SP Kit(Mouse)(sp-0024) instructionsand DAB staining.

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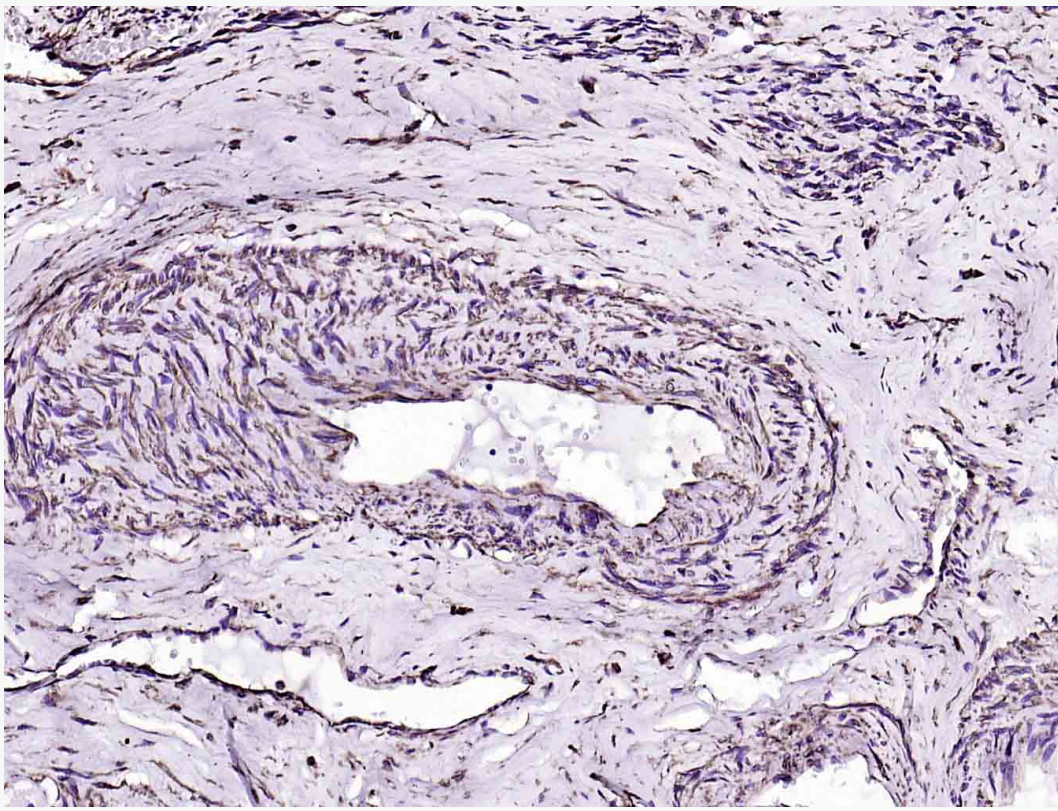

Paraformaldehyde-fixed, paraffin embedded (Human uterus); Antigen retrieval by boiling in s
buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min
buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Vimentin) Monoclo
Unconjugated (SLM-33170M) at 1:200 overnight at 4°C, followed by operating according to S
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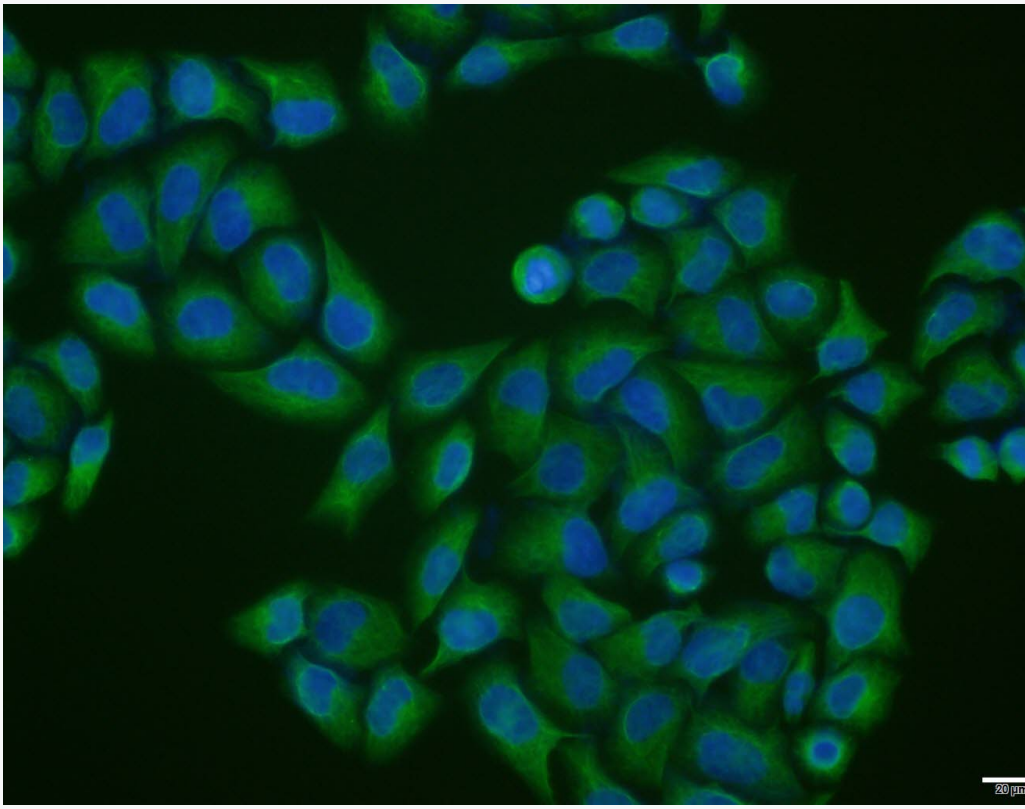

Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blockin goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (Vimentin) monoclonal A Unconjugated (SLM-33170M) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Ant antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

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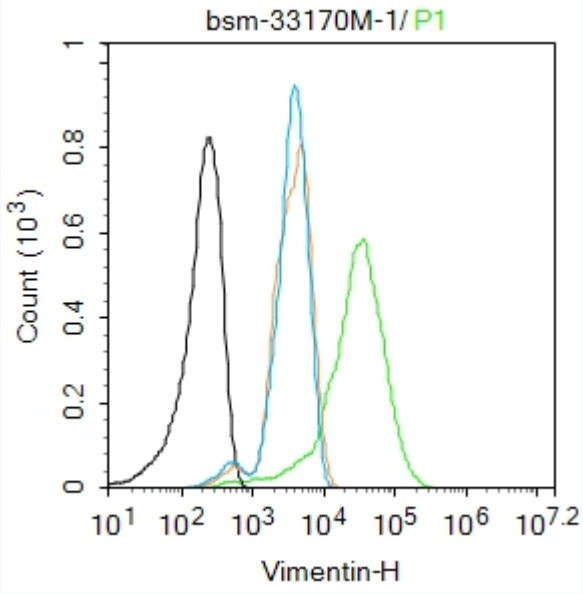

Blank control:Hela.

Primary Antibody (green line): Mouse Anti-Vimentin antibody (SLM-33170M)

Dilution: 1ug/Test;

Secondary Antibody : Goat anti-Mouse IgG-FITC

Dilution: 0.5ug/Test.

Protocol

The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 9

methanol for 20 min at -20℃.The cells were then incubated in 5%BSA to block non-specific

interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min a

temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,

performed.