

Rabbit Anti-Bax antibody

SL0127R

Product Name Bax

Chinese Name Bax 抗体

Alias apoptosis regulator BAX; Apoptosis regulator BAX cytoplasmic isoform beta; Apoptosis regulator BAX membrane isoform alpha; Bax isoform psi; BAX protein cytoplasmic isoform delta; Bax protein cytoplasmic isoform delta. antibody Bax protein cytoplasmic isoform gamma; Bax zeta; Bax-protein 4; Bcl-2-like protein 4; BCL2 associated X protein; BCL2L4; BAX_HUMAN; Bcl2-L-4.

Research Area Cell biology Signal transduction Apoptosis Mitochondrion

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human,Mouse,Rat (predicted:Dog,Pig,Cow,Rabbit,Sheep)
WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:50-200,IF=1:100-500,Flow-Cytometry
/test (Paraffin sections need antigen repair)

Applications not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 21kDa

Cellular localization cytoplasmic The cell membrane Mitochondrion

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human Bax: 84-175/192

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. 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 diagnostic applications.

PubMed

[PubMed](#)

The protein encoded by this gene belongs to the BCL2 protein family. BCL2 family members form hetero- or homodimers and act as anti- or pro-apoptotic regulators that are involved in a wide variety of cellular activities. This protein forms a heterodimer with BCL2, and functions as an apoptotic activator. This protein is reported to interact with, and increase the opening of, the mitochondrial voltage-dependent anion channel (VDAC), which leads to the loss in membrane potential and the release of cytochrome c. The expression of this gene is regulated by the tumor suppressor P53 and has been shown to be involved in P53-mediated apoptosis. Multiple alternatively spliced transcripts have been reported for this gene, which encode different isoforms, have been reported for this gene. [provided by RefSeq, Jul 2008]

Function:

Accelerates programmed cell death by binding to, and antagonizing the apoptosis repressor BCL2. BCL2L11, an adenovirus homolog E1B 19k protein. Under stress conditions, undergoes a conformation change that causes translocation to the mitochondrion membrane, leading to the release of cytochrome c that triggers apoptosis. Promotes activation of CASP3, and thereby apoptosis.

Subunit:

Homodimer. Forms higher oligomers under stress conditions. Interacts with BCL2L11. Interaction with BCL2L11 promotes BAX oligomerization and association with mitochondrial membranes, with subsequent release of cytochrome c. Forms heterodimers with BCL2, E1B 19K protein, BCL2L11, BCL2L11 isoform Bcl-X(L), BCL2L2, MCL1 and A1. Interacts with SH3GLB1 and HN. Interacts with SFN and YWHAZ; the interaction occurs in the cytoplasm. Under stress conditions, JNK-mediated phosphorylation of SFN and YWHAZ, releases BAX to mitochondria. Isoform Sigma interacts with BCL2A1 and BCL2L1 isoform Bcl-X(L). Interacts with RNF144B, which regulates the ubiquitin-dependent stability of BAX. Interacts with CLU under stress conditions that cause a conformation change leading to BAX oligomerization and association with mitochondria. Does not interact with CLU in unstressed cells. Interacts with FAIM2/LFG2.

Product Detail

Subcellular Location:

Isoform Alpha: Mitochondrion membrane; Single-pass membrane protein. Cytoplasm.

Note=Colocalizes with 14-3-3 proteins in the cytoplasm. Under stress conditions, undergoes a conformation change that causes release from JNK-phosphorylated 14-3-3 proteins and translocation to the mitochondrion membrane.

Isoform Beta: Cytoplasm.

Isoform Gamma: Cytoplasm.

Isoform Delta: Cytoplasm (Potential).

Tissue Specificity:

Expressed in a wide variety of tissues. Isoform Psi is found in glial tumors. Isoform Alpha is expressed in spleen, breast, ovary, testis, colon and brain, and at low levels in skin and lung. Isoform Sigma is expressed in spleen, breast, ovary, testis, lung, colon, brain and at low levels in skin. Isoform Alpha and isoform Sigma are expressed in pro-myelocytic leukemia, histiocytic lymphoma, Burkitt's lymphoma, T-cell lymphoma, lymphoblastic leukemia, breast adenocarcinoma, ovary adenocarcinoma, prostate adenocarcinoma, prostate adenocarcinoma, lung carcinoma, epidermoid carcinoma, small cell lung carcinoma.

and colon adenocarcinoma cell lines.

Similarity:

Belongs to the Bcl-2 family.

SWISS:

Q07812

Gene ID:

581

Database links:

[Entrez Gene: 581](#) Human

[Entrez Gene: 12028](#) Mouse

[Entrez Gene: 24887](#) Rat

[Omim: 600040](#) Human

[SwissProt: Q07812](#) Human

[SwissProt: Q07813](#) Mouse

[SwissProt: Q63690](#) Rat

[Unigene: 624291](#) Human

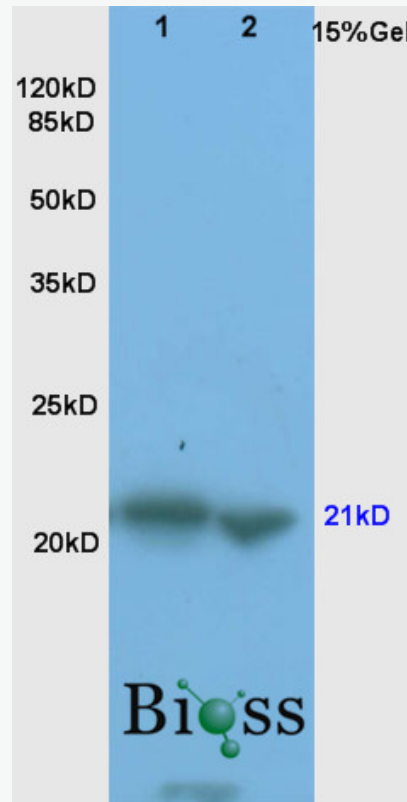
[Unigene: 19904](#) Mouse

[Unigene: 10668](#) Rat

可识别分子量为 21KDa 的 Bax 蛋白，此抗体与 Bax 有较高特异性，且与 Bcl-2 及 Bcl-X_L 无 React Species，Bax、Bcl-2 和 Bcl-X_L 蛋白是凋亡调节蛋白家庭成员。与 Bcl-2 和 Bcl-X_L Bax 蛋白的过量表达加速 Apoptosis。Bax 在组织中广泛表达。

Bax 与 Bcl-2 比值的高低可用于判断恶性 Tumour 耐药及复发。此抗体用于 Tumour 及 Apoptosis 等方面的研究。最新的研究表明：Bax 可能具有 Tumour 抑制作用。

**Product
Picture**



Sample: Brain(Rat)lysate 30ug;

Liver(Mouse) lysates, 30ug;

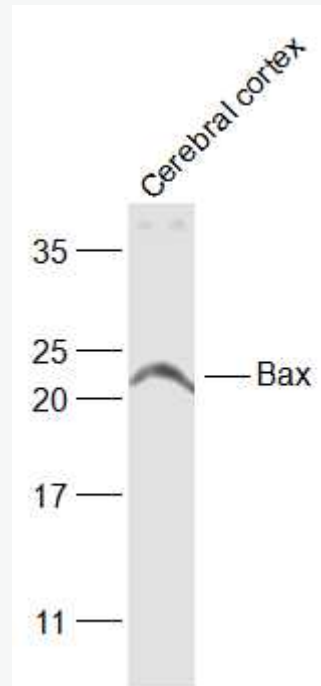
Primary: Anti-Bax (SL0127R) at 1:200;

Secondary: HRP conjugated Goat-Anti-Rabbit IgG(bse-0295G) at 1: 3000;

ECL excited the fluorescence;

Predicted band size : 21kD

Observed band size : 21kD



Sample:

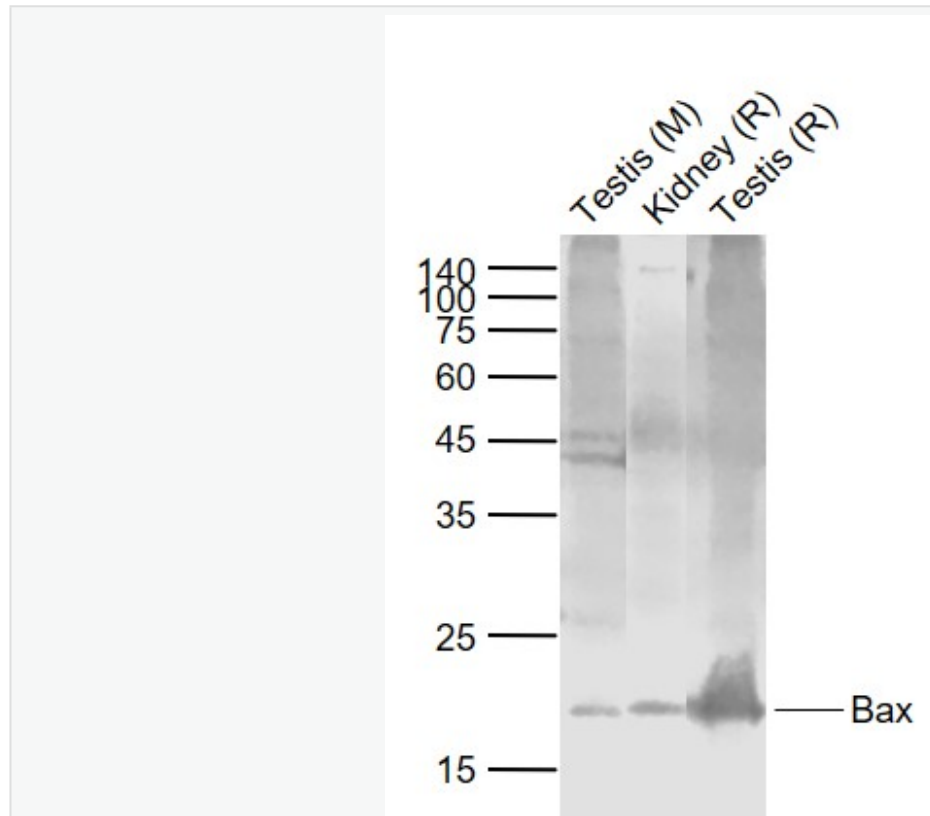
Cerebral cortex (Rat) Lysate at 40 ug

Primary: Anti-Bax (SL0127R) at 1/1000 dilution

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

Predicted band size: 21 kD

Observed band size: 21 kD



Sample:

Lane 1: Testis (Mouse) Lysate at 40 ug

Lane 2: Kidney (Rat) Lysate at 40 ug

Lane 3: Testis (Rat) Lysate at 40 ug

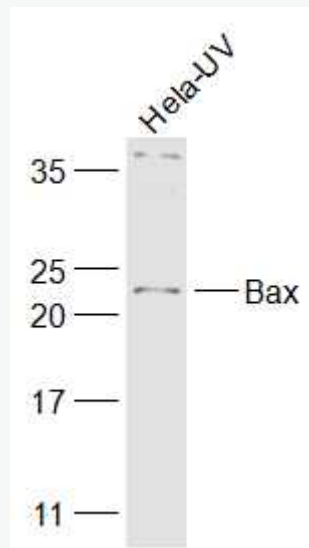
Primary:

Anti-Bax (SL0127R) at 1/1000 dilution

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

Predicted band size: 21 kD

Observed band size: 21 kD



Sample:

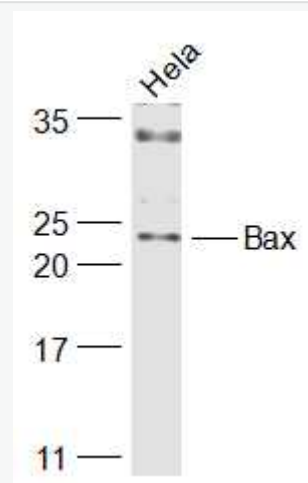
HeLa-UV(Human) Cell Lysate at 30 ug

Primary: Anti-Bax (SL0127R) at 1/1000 dilution

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

Predicted band size: 21 kD

Observed band size: 23 kD



Sample:

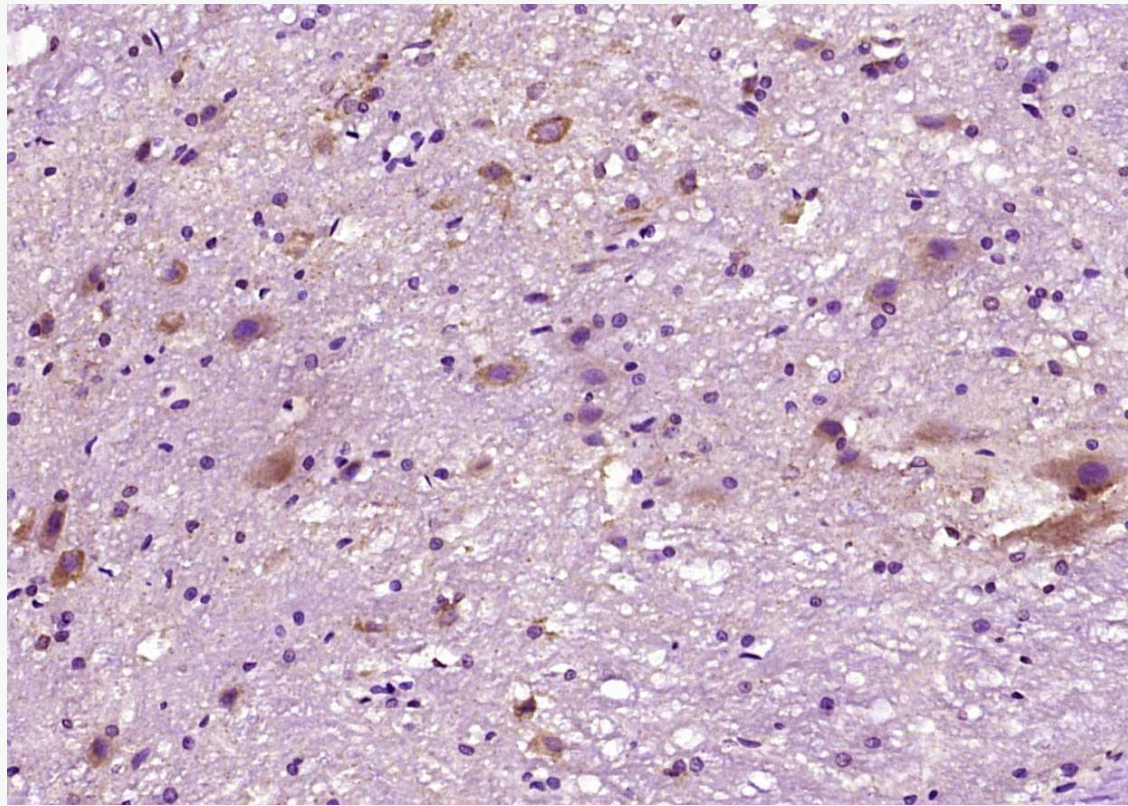
Hela(Human) Cell Lysate at 30 ug

Primary: Anti-Bax (SL0127R) at 1/1000 dilution

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

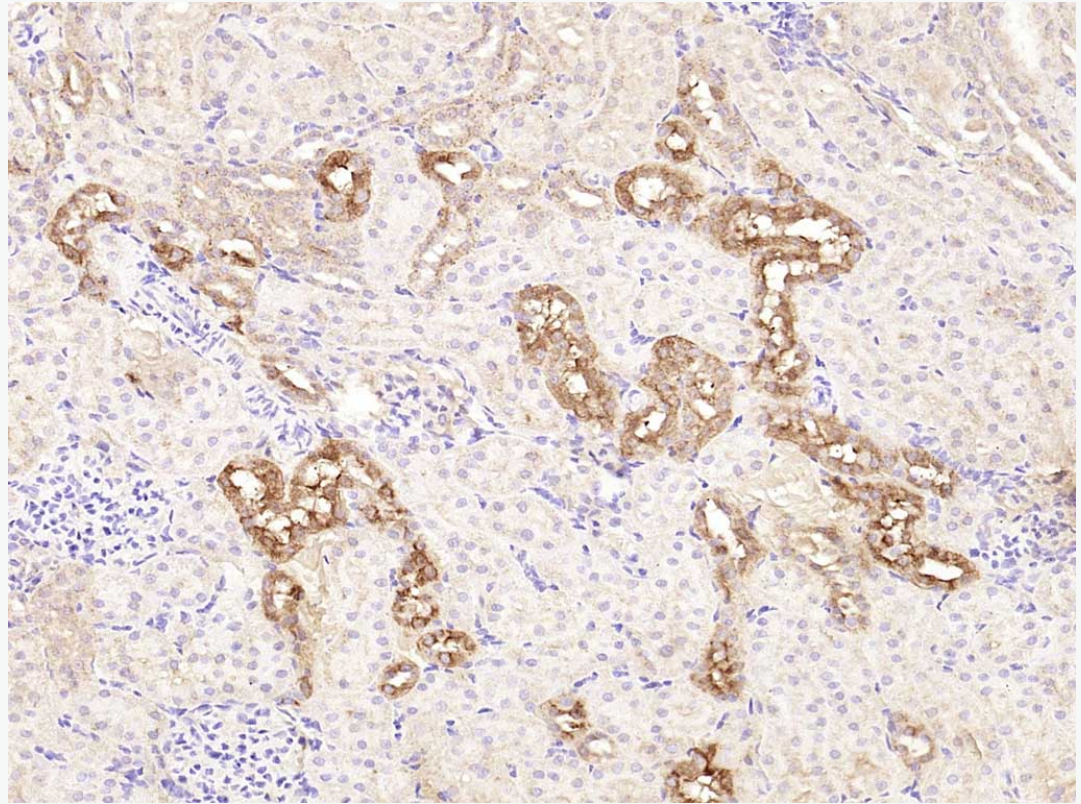
Predicted band size: 21 kD

Observed band size: 23 kD

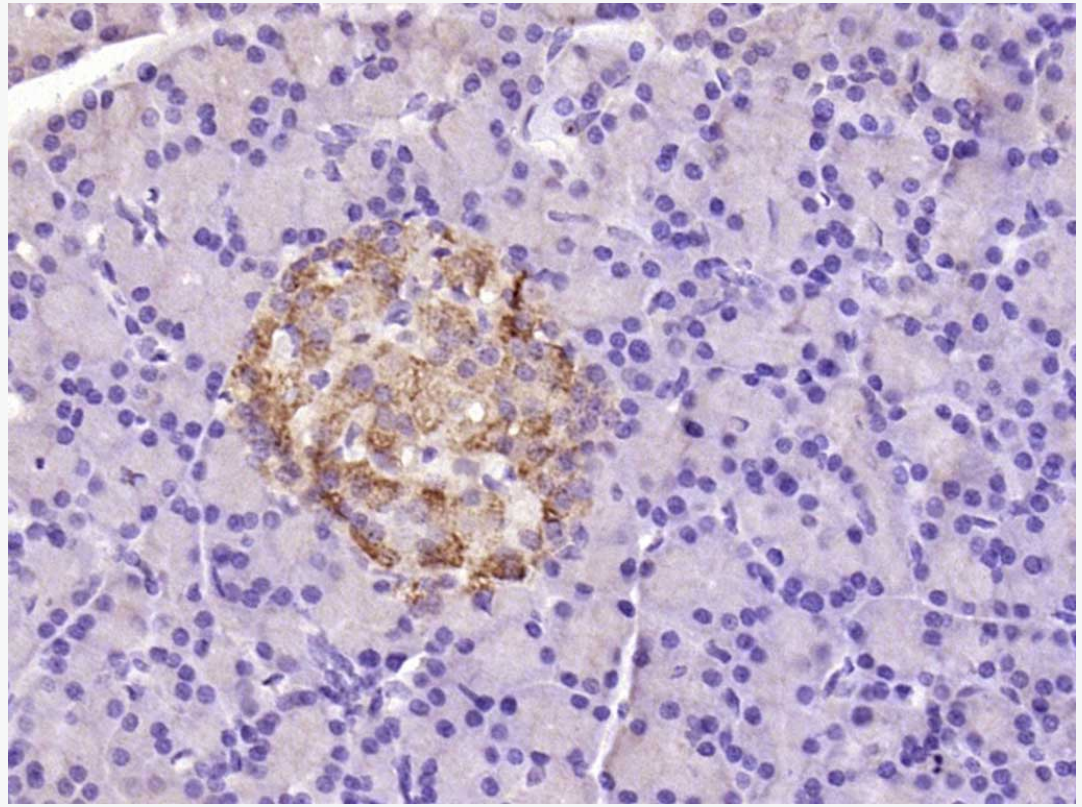


Paraformaldehyde-fixed, paraffin embedded (Rat spinal cord); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation

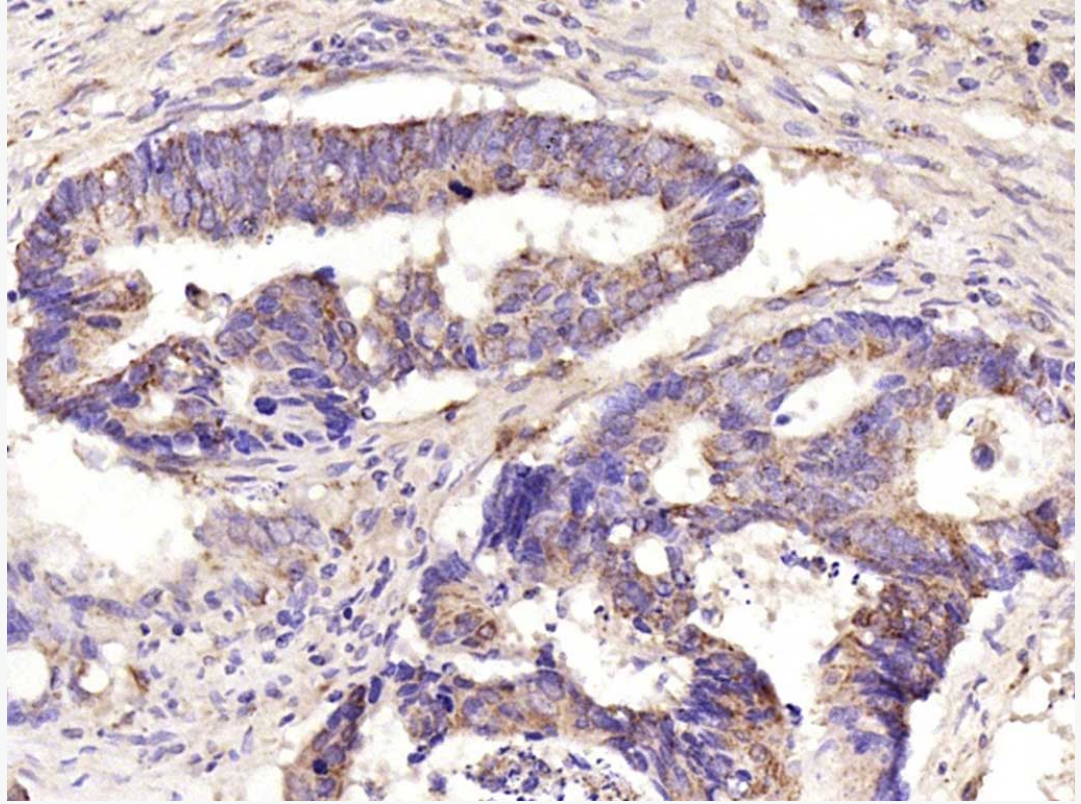
(Bax) Polyclonal Antibody, Unconjugated (SL0127R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



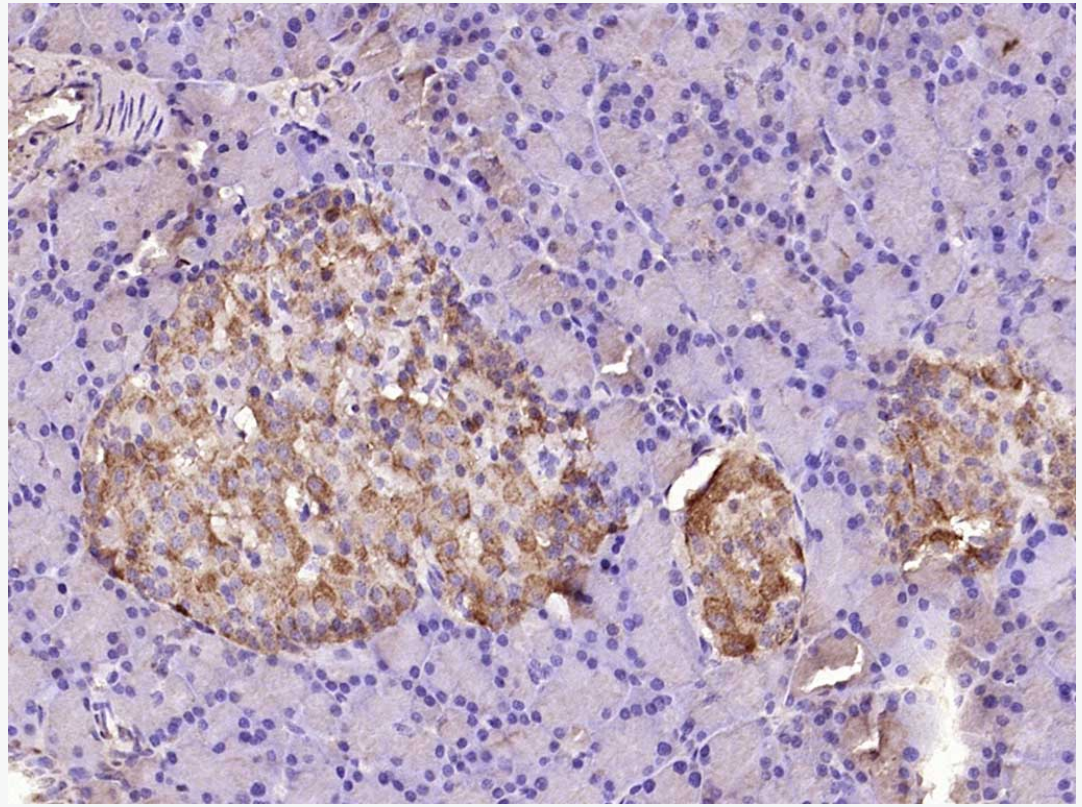
Paraformaldehyde-fixed, paraffin embedded (rat kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 15 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Bax) Polyclonal Antibody, Unconjugated (SL0127R) at 1:2000 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



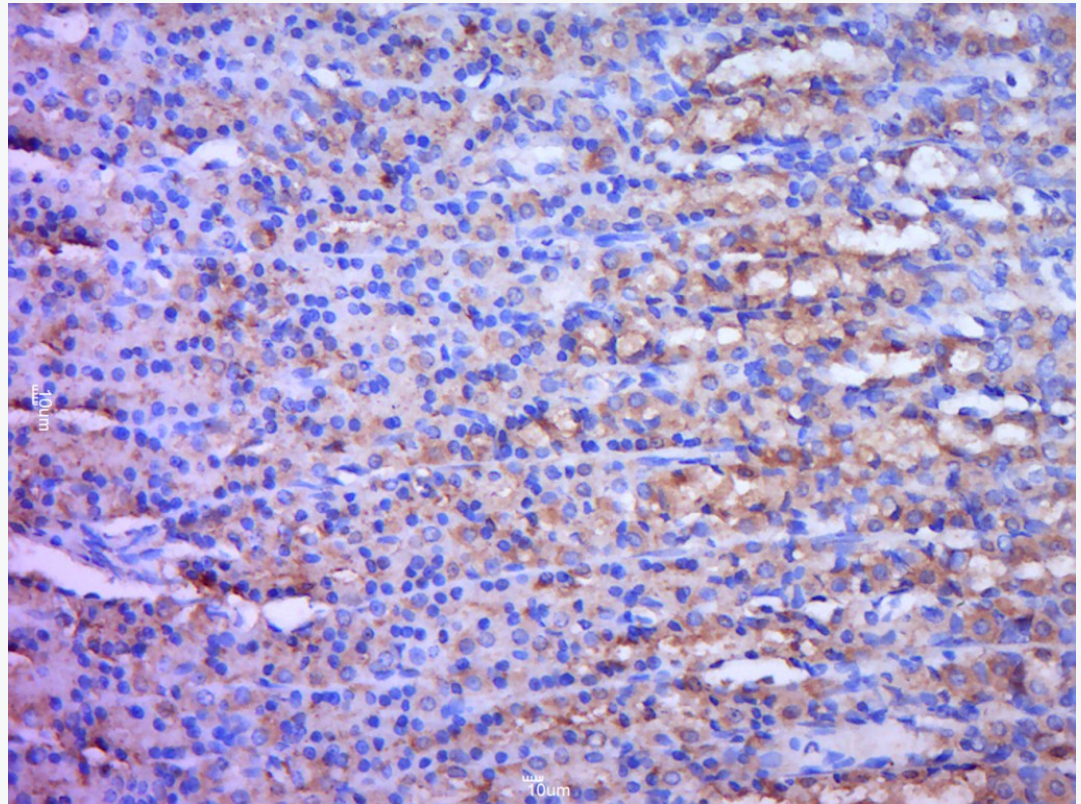
Paraformaldehyde-fixed, paraffin embedded (mouse pancreas); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation (Bax) Polyclonal Antibody, Unconjugated (SL0127R) at 1:2000 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Bax) Polyclonal Antibody, Unconjugated (SL0127R) at 1:2000 overnight at 4°C, followed by secondary antibody incubation and DAB staining.



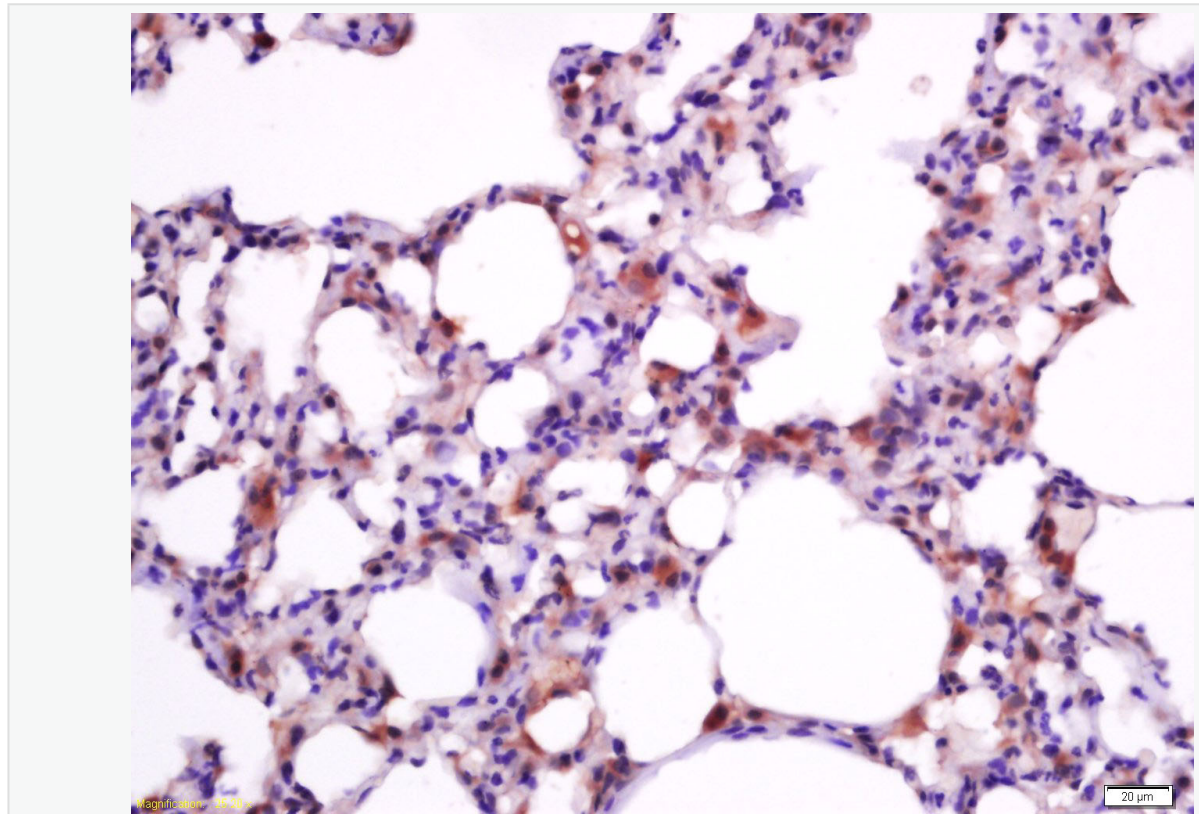
Paraformaldehyde-fixed, paraffin embedded (rat pancreas); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 15 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (1:1000) Polyclonal Antibody, Unconjugated (SL0127R) at 1:2000 overnight at 4°C, followed by operation according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: rat stomach tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) 37°C for 20 min;

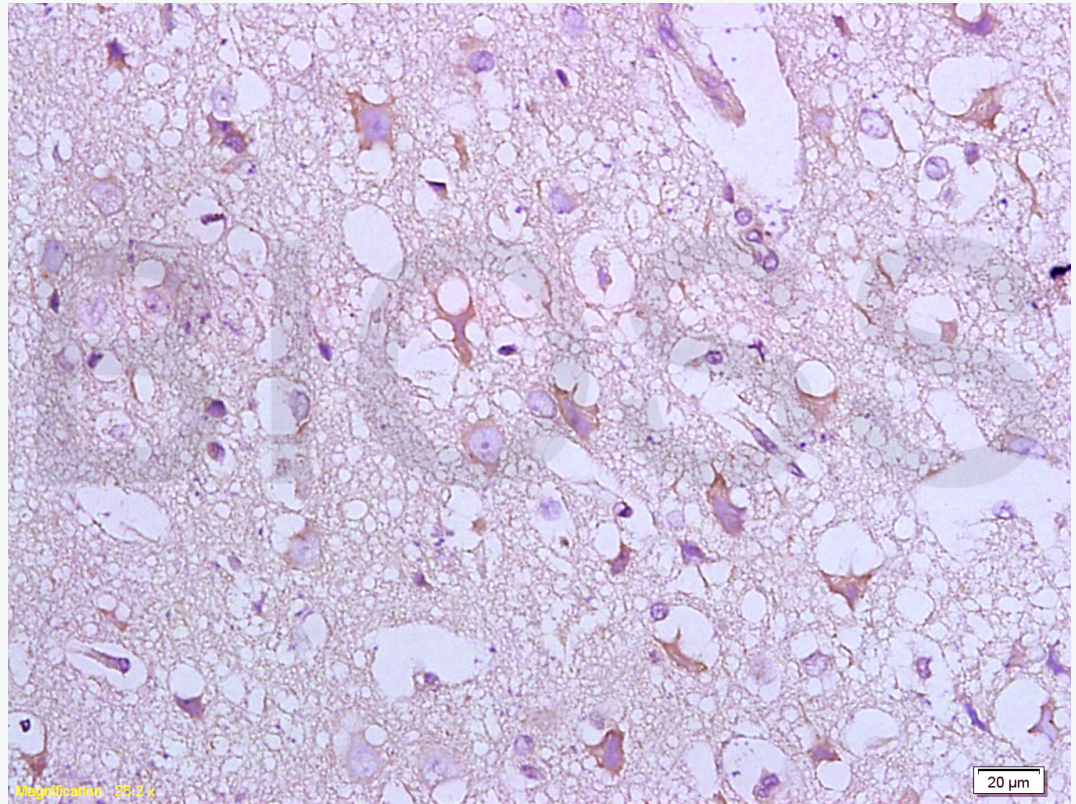
Incubation: Anti-Bax Polyclonal Antibody, Unconjugated(SL0127R) 1:200, overnight at 4 °C followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat lung tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005 37°C for 20 min;

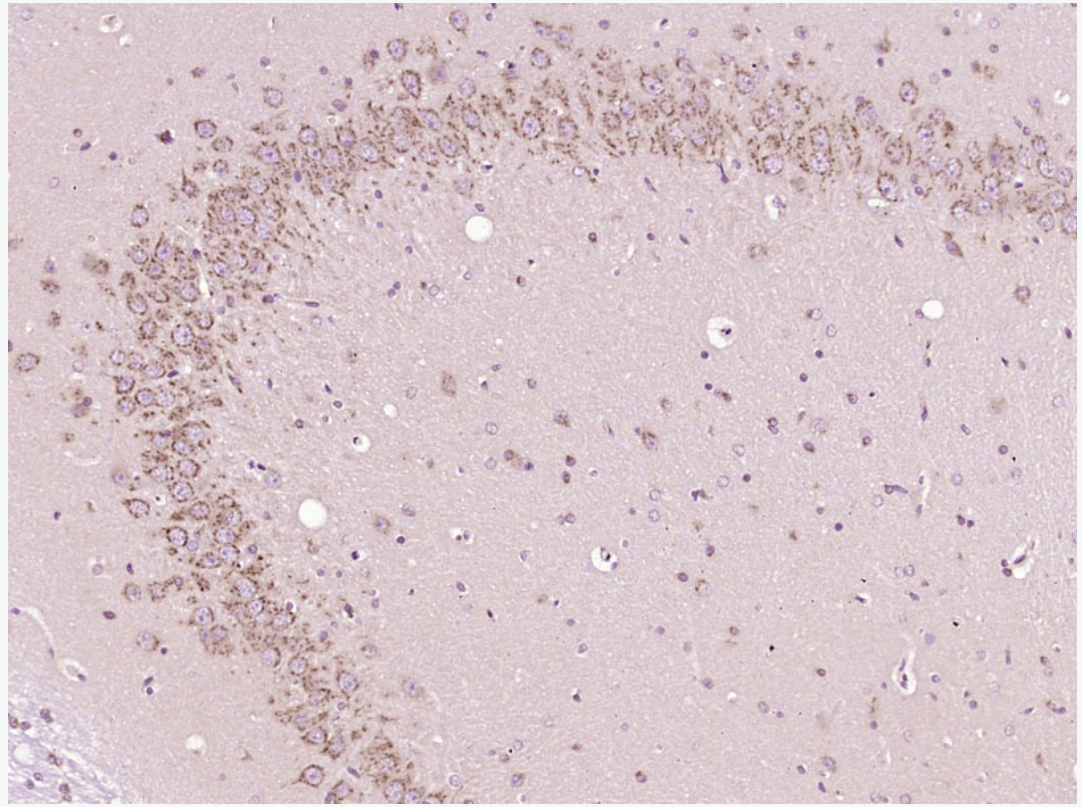
Incubation: Anti-Bax Polyclonal Antibody, Unconjugated(SL0127R) 1:200, overnight at 4 癢 followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



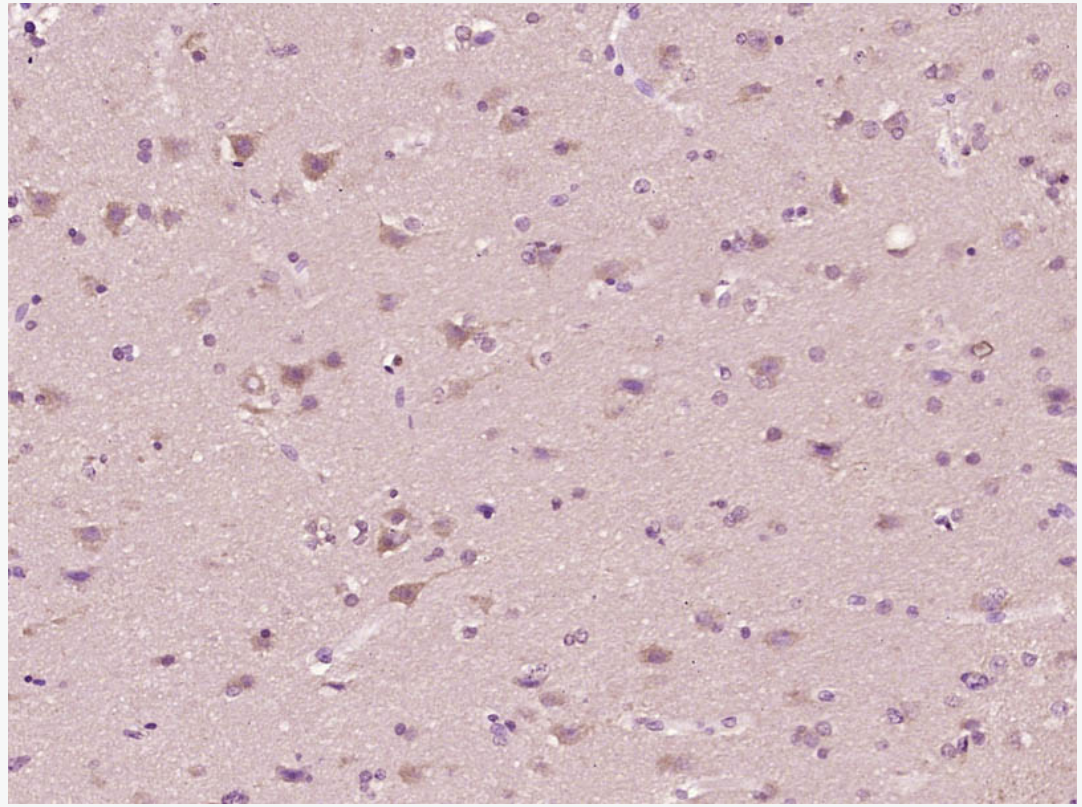
Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) 37°C for 20 min;

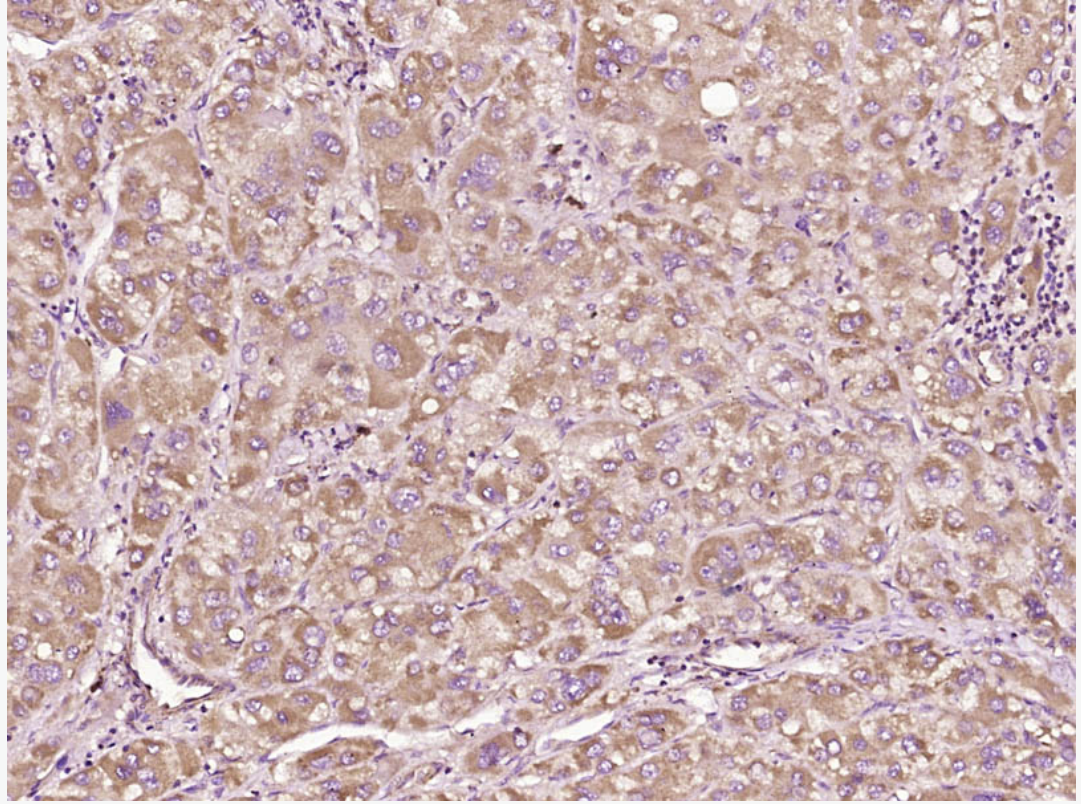
Incubation: Anti-Bax Polyclonal Antibody, Unconjugated(SL0127R) 1:800, overnight at 4 °C followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



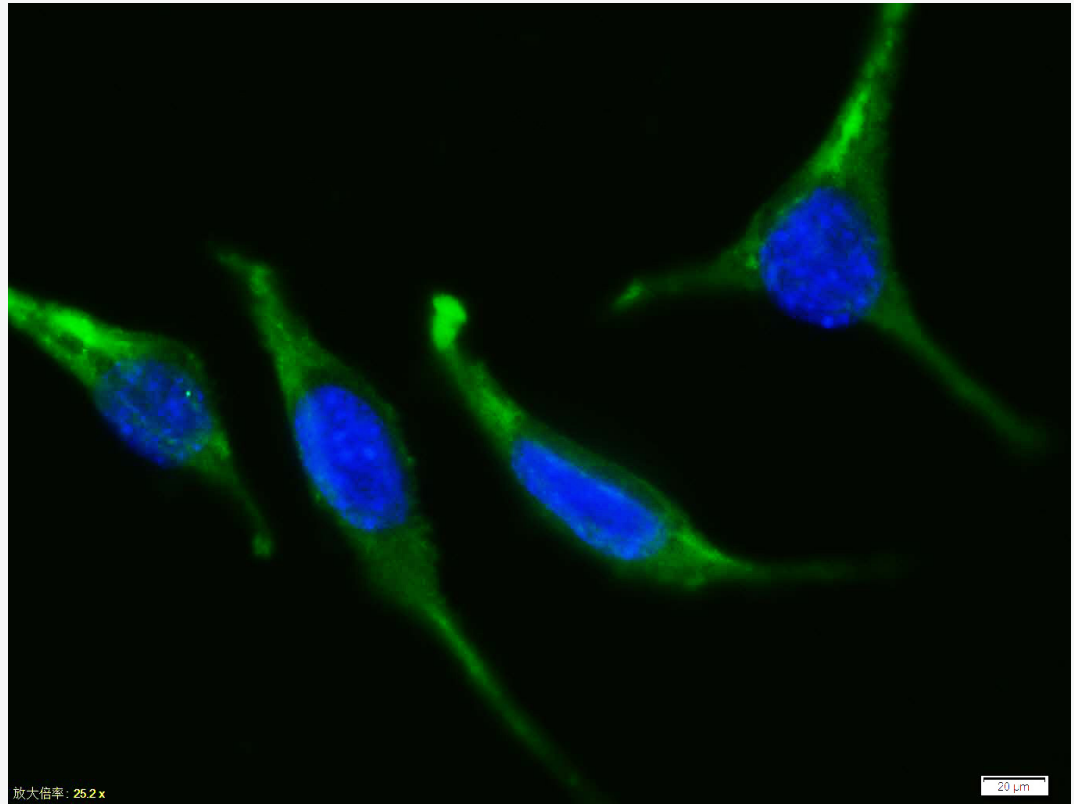
Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 15 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (1) Polyclonal Antibody, Unconjugated (SL0127R) at 1:400 overnight at 4°C, followed by operation according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



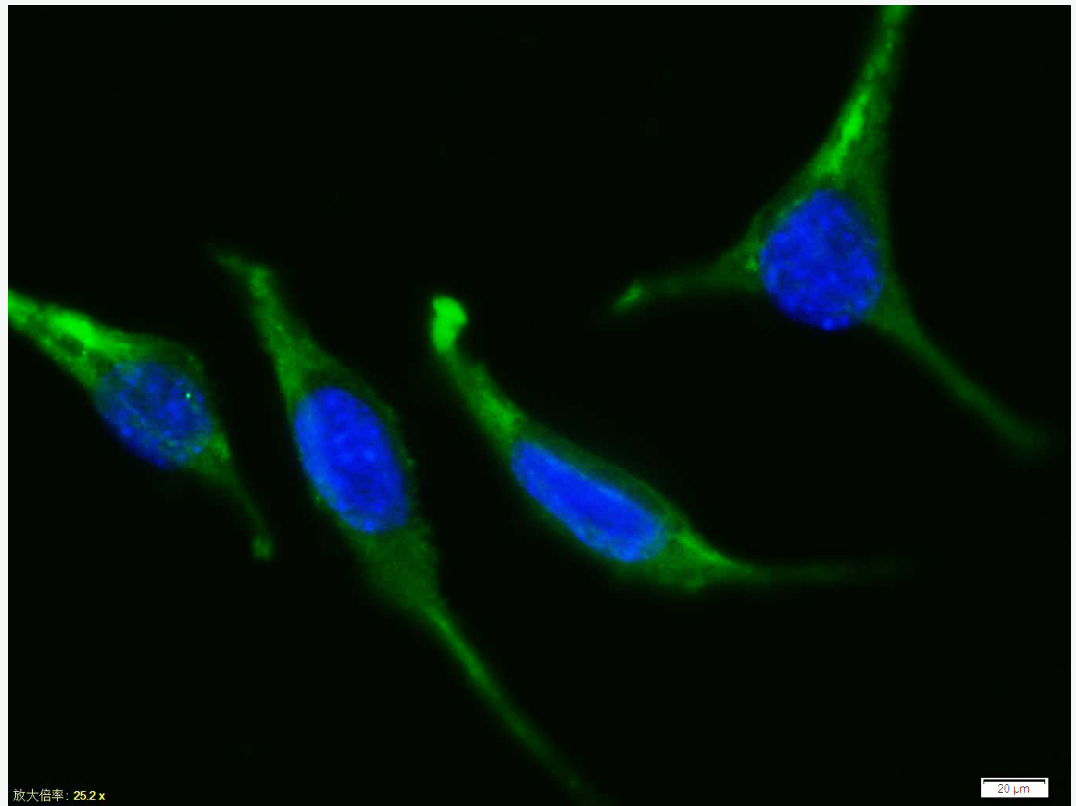
Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Bax) Polyclonal Antibody, Unconjugated (SL0127R) at 1:400 overnight at 4°C, followed by DAB staining according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human liver carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Bax) Polyclonal Antibody, Unconjugated (SL0127R) at 1:400 overnight at 4°C, followed by DAB staining operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell:Sh-sy5y cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (Bax) polyclonal Antibody, Unconjugated (SL0127R) 1:100, 90 minutes at 37°C; followed by FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04) was used to stain the cell nuclei.



Tissue/cell:Sh-sy5y cell; 4% Paraformaldehyde