Anti-Caspase 3 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R013730

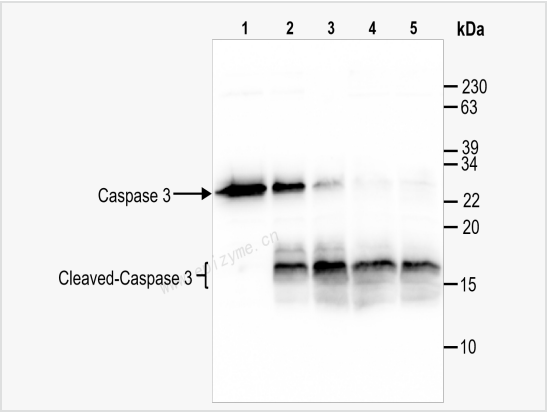
Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	31F24G67
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Caspase-3
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Caspase 3 Rabbit mAb [31F24G67] is for research use only and not for use in diagnostic or therapeutic procedures.

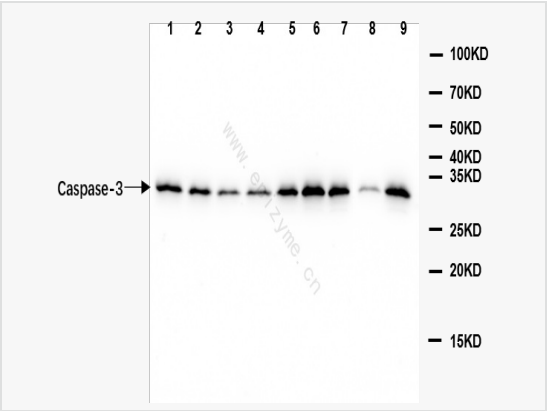
Protein Information

Synonyms	Apopain precursor, CASP-3, CPP-32, CPP32, Caspase-3, Cysteine protease CPP32, ICE3, SCA-1, SREBP cleavage activity 1.
Calculated MW	Calculated MW: 17, 32 kDa; Observed MW: 17, 32 kDa
Uniprot ID	P42574
Gene ID	836
Background	Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce 2 subunits, large and small, that dimerize to form the active enzyme.
Cellular Location	Cytoplasm.
Tissue Location	Highly expressed in lung, spleen, heart, liver and kidney. Moderate levels in brain and skeletal muscle, and low in testis. Also found in many cell lines, highest expression in cells of the immune system.

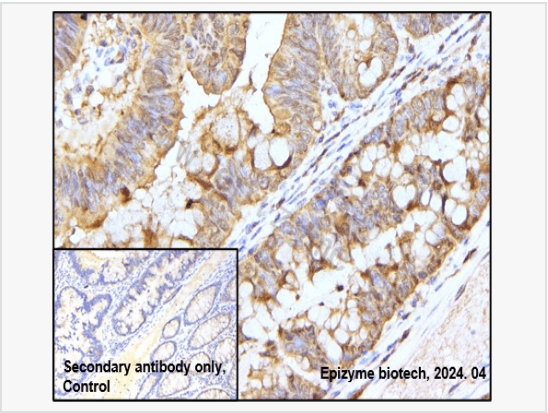
Validation Images



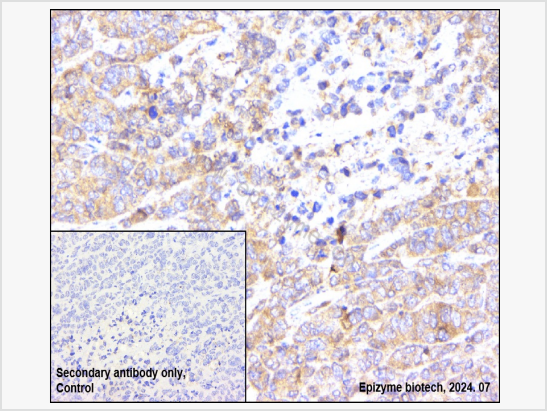
Western Blot - Anti-Caspase 3 Rabbit mAb [31F24G67]
All lanes: R013730 at 1:1,000 dilution
Lane 1 : Jurkat (human T-cell leukemia cell) whole cell lysates
Lane 2 : Jurkat treated with 1 μM Staurosporine for 1 h whole cell lysates
Lane 3 : Jurkat treated with 1 μM Staurosporine for 2 h whole cell lysates
Lane 4 : Jurkat treated with 1 μM Staurosporine for 3 h whole cell lysates
Lane 5 : Jurkat treated with 1 μM Staurosporine for 4 h whole cell lysates
Lysates/proteins at 30 μg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 17, 32 kDa
Observed band size: 17, 32 kDa
Developed using the ECL technique (Cat. No. SQ201).



Western Blot - Anti-Caspase 3 Rabbit mAb [31F24G67]
All lanes: R013730 at 1:1,000 dilution
Lane 1: HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: 293T (human embryonic kidney cell) whole cell lysates
Lane 3: MCF7 (human breast adenocarcinoma epithelial cell) whole cell lysates
Lane 4: A549 (human non-small cell lung cancer epithelial cell) whole cell lysates
Lane 5: HCT116 (human colorectal carcinoma epithelial cell) whole cell lysates
Lane 6: T24 (human bladder cancer epithelial cell) whole cell lysates
Lane 7: HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysates
Lane 8: U2OS (human osteosarcoma epithelial cell) whole cell lysates
Lane 9: SW620 (human colorectal carcinoma epithelial cell) whole cell lysates
Lysates/proteins at 10 μg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 32 kDa
Observed band size: 32 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Caspase 3 Rabbit mAb [31F24G67]
Sample: Paraformaldehyde-fixed, paraffin embedded human colorectal carcinoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013730 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Caspase 3 Rabbit mAb [31F24G67]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse kidney tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013730 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.