BT LAB
Bioassay Technology Laboratory
Optimize Your Research

Active Caspase-3 Monoclonal Antibody(5E1)

Description

Product type	Primary Antibody
Code	BT-MCA0002
Host	Mouse
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	Recombinant Protein of Active Caspase-3
Mol wt	N/A
Species reactivity	Human,Mouse,Rat,Chicken
Clonality	Monoclonal
Recommended application	IF, ICC, WB, IHC-p
Concentration	1 mg/ml
Full name	Caspase-3
Synonyms	CASP3; CPP32; Caspase-3; CASP-3; Apopain; Cysteine protease CPP32; CPP-32; Protein Yama; SREBP cleavage activity 1; SCA-1

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

This gene encodes a protein which is a member of the cysteine-aspartic acid protease (caspase) family. 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 two subunits, large and small, that dimerize to form the active enzyme. This protein cleaves and activates caspases 6, 7 and 9, and the protein itself is processed by caspases 8, 9 and 10. It is the predominant caspase involved in the cleavage of amyloid-beta 4A precursor protein, which is associated with neuronal death in Alzheimer's disease. Alternative splicing of this gene results in two transcript variants that encode the same protein.

Recommended Dilution

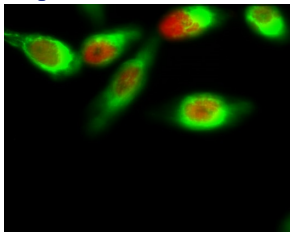
IF: 1:50-200

IHC: 1:100-200

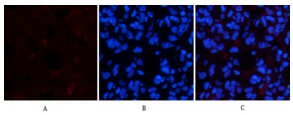
WB: 1:500-1000

Not yet tested in other applications.

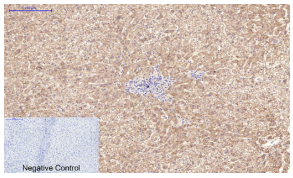
Images



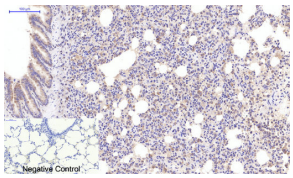
Immunofluorescence analysis of Hela cell. FoxO1 (phospho Ser256) Polyclonal Antibody(red) was diluted at 1:200(4°C overnight). Active Caspase-3 Monoclonal antibody(5E1)(green) was diluted at 1:200(4°C overnight).



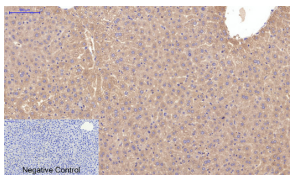
Immunofluorescence analysis of rat-lung tissue. 1.Active Caspase-3 Monoclonal antibody(5E1)(red) was diluted at 1:200(4°C,overnight). 2. Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3. Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



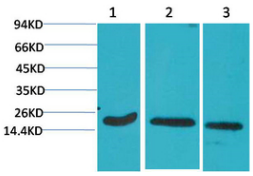
Immunohistochemical analysis of paraffin-embedded Human-liver tissue. 1.Active Caspase-3 Monoclonal antibody(5E1) was diluted at 1:200(4°C,overnight). 2.Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3.Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



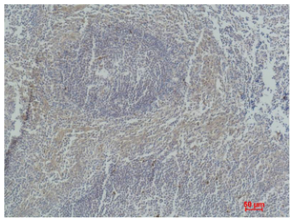
Immunohistochemical analysis of paraffin-embedded Rat-lung tissue. 1.Active Caspase-3 Monoclonal antibody(5E1) was diluted at 1:200(4°C,overnight). 2.Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3.Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



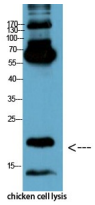
Immunohistochemical analysis of paraffin-embedded Mouse-liver tissue. 1.Active Caspase-3 Monoclonal antibody(5E1) was diluted at 1:200(4°C,overnight). 2.Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3.Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



Western blot analysis of 1) Hela, 2) 3T3. 3) Rat Brain Tissue using Active Caspase-3 Monoclonal antibody.



Immunohistochemical analysis of paraffin-embedded Human Tonsil Tissue using Active Caspase-3 Monoclonal antibody.



Western Blot analysis of chicken cell lysis using Antibody diluted at 1:1000

Storage

-20°C for one year

501 Changsheng S Rd, Nanhu Dist, Jiaxing, Zhejiang, China

Tel: 86 21 31007137 | E-mail: save@bt-laboratory.com | www.bt-laboratory.com