

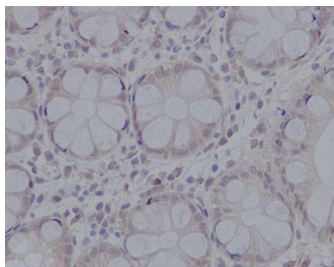
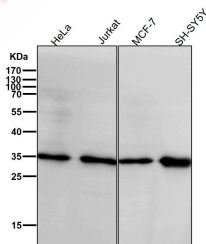
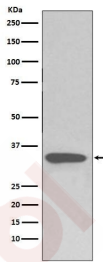
Anti-Caspase-3 Antibody (1F439)

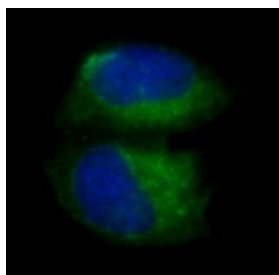
Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 35 kDa.
Clone:	1F439
Purification:	Affinity-chromatography

Applications

- Verified Activity:
1. Western blot analysis of pro Caspase 3 expression in Jurkat cell lysate.
 2. All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.
 3. Immunohistochemical analysis of paraffin-embedded human colon, using pro Caspase 3 Antibody.
 4. Immunofluorescent analysis of Hela cells, using pro Caspase 3 Antibody.





Application: FCM,ICC/IF,IHC,IP,WB

Recommended WB: 1:1000-2000; IHC: 1:100-200; ICC/IF: 1:50-200; IP: 1:20-50; FCM: 1:20-100

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: A synthesized peptide: human Caspase 3

Antigen Species: human

Uniprot ID: P42574

Synonyms: Yama;apopain;CPP32;CPP32B;SCA-1

Research Background

Caspase-3, also known as apopain, SCA-1, Yama and CPP32, is an aspartate-specific cysteine protease that belongs to the ICE subfamily of caspases. Caspase-3 is expressed in cells as an inactive precursor from which the p17 and p11 subunits of the mature caspase-3 are proteolytically generated during apoptosis. The caspase-3 precursor is first cleaved at Asp175-Ser176 to produce the p11 subunit and the p20 peptide. Subsequently, the p20 peptide is cleaved at Asp28-Ser29 to generate the mature p17 subunit. The active caspase-3 enzyme is a heterodimer composed of two p17 and two p11 subunits. At the onset of apoptosis, caspase-3 proteolytically cleaves PARP at an Asp216-Gly217 bond. During the execution of the apoptotic cascade, activated caspase-3 releases SREBP from the membrane of the ER in a proteolytic reaction that is distinct from their normal sterol-dependent activation. Caspase-3 cleaves and activates SREBPs between the basic helix-loop-helix leucine zipper domain and the membrane attachment domain. Caspase-3 also cleaves and activates caspase-6, -7 and -9. The human caspase-3 gene encodes a cytoplasmic protein that is highly expressed in lung, spleen, heart, liver, kidney and cells of the immune system.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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