Product datasheet

Anti-Caspase 10/CASP10 (aa271-482) Antibody

Catalog Number: ***A02190-2***

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-Caspase 10/CASP10 (aa271-482) Antibody
Gene Name	CASP10
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human
Tested Application	WB, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human Caspase-10/CASP10 recombinant protein (Position: K271-E482).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	59 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA):1:100-1000

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Caspase-10 is an enzyme that, in humans, is encoded by the CASP10 gene. The Caspase 10 gene contains 11 exons and spans about 48 kb. This gene is mapped to 2q33.1. It is transcribed in the centromere-to-telomere direction.This gene encodes a protein that 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 that 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 3 and 7, and the protein itself is processed by caspase 8. Mutations in this gene are associated with apoptosis defects seen in type II autoimmune lymphoproliferative syndrome. Three alternatively spliced transcript variants encoding different isoforms have been described for this gene.

Reference

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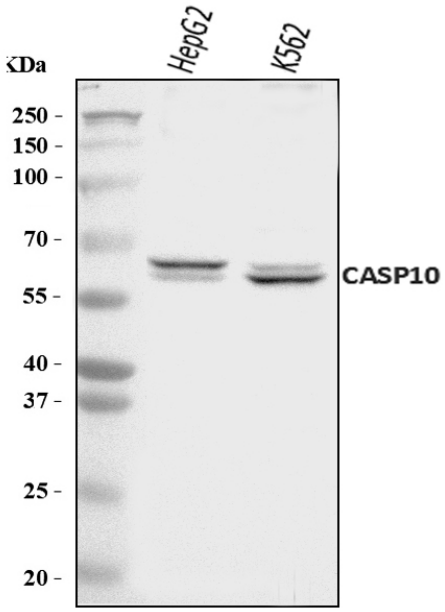
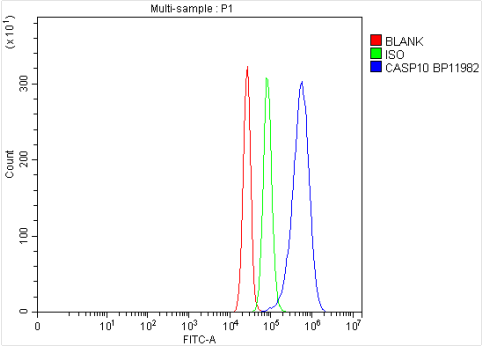
Anti-Caspase 10/CASP10 (aa271-482) Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of Caspase 10/CASP10 using anti-Caspase 10/CASP10 antibody (A02190-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: HepG2 whole cell lysates,
Lane 2: K562 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Caspase 10/CASP10 antigen affinity purified polyclonal antibody (A02190-2) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Caspase 10/CASP10 at approximately 59 kDa. The expected band size for Caspase 10/CASP10 is at 59 kDa.



Flow Cytometry analysis of SiHa cells using anti-Caspase 10/CASP10 antibody (A02190-2).
Overlay histogram showing SiHa cells stained with A02190-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Caspase 10/CASP10 Antibody (A02190-2) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.