10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CASP10 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1326c

Product Information

Application	WB, E
Primary Accession	Q92851
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB18398
Calculated MW	58951
Antigen Region	164-192

Additional Information

Gene ID	843
Other Names	Caspase-10, CASP-10, Apoptotic protease Mch-4, FAS-associated death domain protein interleukin-1B-converting enzyme 2, FLICE2, ICE-like apoptotic protease 4, Caspase-10 subunit p23/17, Caspase-10 subunit p12, CASP10, MCH4
Target/Specificity	This CASP10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 164-192 amino acids from the Central region of human CASP10.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CASP10 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CASP10
Synonyms	MCH4

Function	Involved in the activation cascade of caspases responsible for apoptosis execution. Recruited to both Fas- and TNFR-1 receptors in a FADD dependent manner. May participate in the granzyme B apoptotic pathways. Cleaves and activates effector caspases CASP3, CASP4, CASP6, CASP7, CASP8 and CASP9. Hydrolyzes the small- molecule substrates, Tyr- Val-Ala-Asp-|-AMC and Asp-Glu-Val-Asp-|-AMC.
Tissue Location	Detectable in most tissues. Lowest expression is seen in brain, kidney, prostate, testis and colon

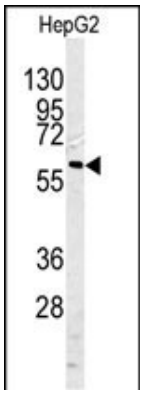
Background

CASP10 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 3 and 7, and the protein itself is processed by caspase 8. Mutations in the protein are associated with apoptosis defects seen in type II autoimmune lymphoproliferative syndrome.

References

Lan,Q., Morton,L.M. Blood 114 (2), 264-267 (2009)
Kim,Y.R., Kim,K.M. Hum. Pathol. 40 (6), 868-871 (2009)
Lisa-Santamaria,P. Biochim. Biophys. Acta 1793 (3), 561-571 (2009)

Images



Western blot analysis of CASP10 antibody (Center) (Cat.#AP1326c) in HepG2 cell line lysates (35ug/lane). CASP10 (arrow) was detected using the purified Pab.