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

Anti-Caspase 10 Antibody

Catalog # AP51039

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q92851
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	58951

Additional Information

Gene ID	843
Other Names	MCH4; Caspase-10; CASP-10; Apoptotic protease Mch-4; FAS-associated death domain protein interleukin-1B-converting enzyme 2; FLICE2; ICE-like apoptotic protease 4
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Caspase 10. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

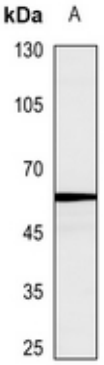
Protein Information

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

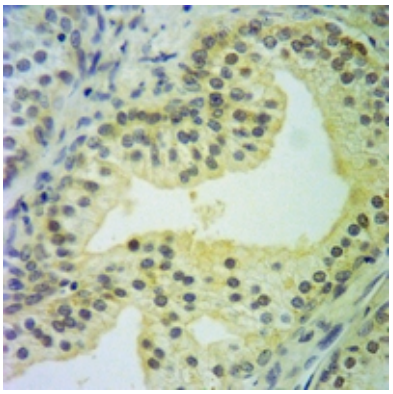
References

Fernandes-Alnemri T.,et al.Proc. Natl. Acad. Sci. U.S.A. 93:7464-7469(1996).
Vincenz C.,et al.J. Biol. Chem. 272:6578-6583(1997).
Ng P.W.,et al.J. Biol. Chem. 274:10301-10308(1999).
Hadano S.,et al.Genomics 71:200-213(2001).
Vonarbourg C.,et al.Submitted (MAY-2004) to the EMBL/GenBank/DDBJ databases.

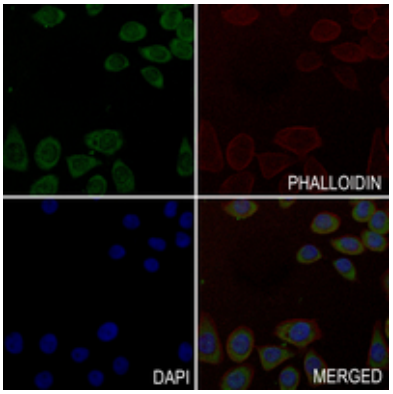
Images



Western blot analysis of Caspase 10 expression in rat testis (A) whole cell lysates. (Predicted band size: 58 kD; Observed band size: 59 kD)



Immunohistochemical analysis of Caspase 10 staining in human prostate formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Caspase 10 staining in PCCL cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.