

Caspase-10 Rabbit mAb

Catalog No: #49264



Package Size: #49264-1 50ul #49264-2 100ul

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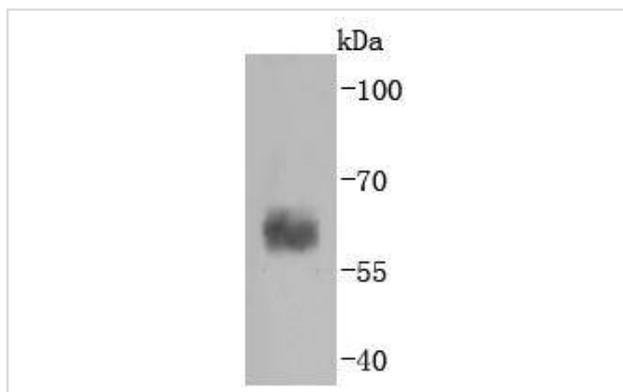
Description

Product Name	Caspase-10 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JJ0890
Purification	ProA affinity purified
Applications	WB, IHC, IP, FC
Species Reactivity	Hu
Immunogen Description	recombinant protein
Other Names	ALPS2 antibody Apoptotic protease Mch-4 antibody CASP 10 antibody CASP-10 antibody CASP10 antibody CASPA_HUMAN antibody Caspase 10 apoptosis related cysteine peptidase antibody Caspase-10 subunit p12 antibody FADD like ICE2 antibody Fas associated death domain protein antibody FAS-associated death domain protein interleukin-1B-converting enzyme 2 antibody FLICE 2 antibody FLICE2 antibody ICE like apoptotic protease 4 antibody ICE-like apoptotic protease 4 antibody Interleukin 1B converting enzyme 2 antibody MCH 4 antibody
Accession No.	Swiss-Prot#:Q92851
Calculated MW	59 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

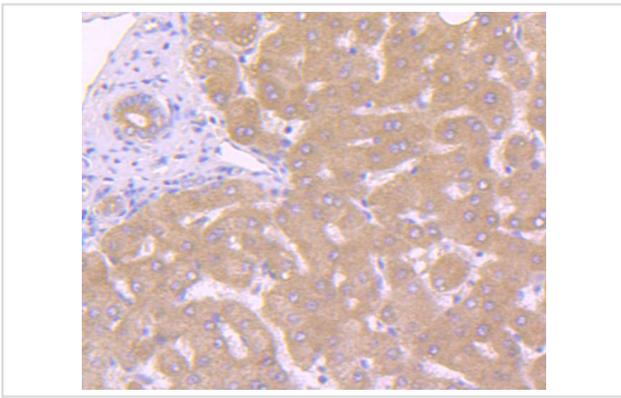
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200FC: 1:50-1:100

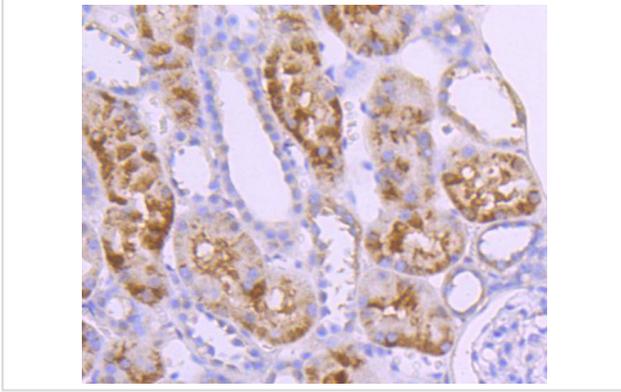
Images



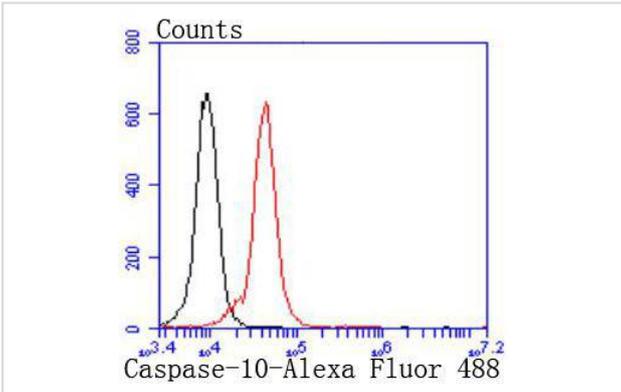
Western blot analysis of Caspase-10 on K562 cells lysates using anti-Caspase-10 antibody at 1/1,000 dilution.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using anti-Caspase-10 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Caspase-10 antibody. Counter stained with hematoxylin.



Flow cytometric analysis of K562 cells with Caspase-10 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody

Background

Caspase-10, also designated Mch4, is recruited to the native TRAIL and CD9 death-inducing signaling complexes (DISCs) by the FADD/Mort1 adaptor protein complex. Caspase-10 requires the assembly of the FADD and DISC complexes for its recruitment and cleavage-induced activation during CD95-induced apoptosis of activated T cells. The N-terminus of caspase-10 contains FADD-like death effector domains further indicating that it associates with FADD to induce apoptosis. Caspase-10 is not required for apoptosis induction and when overexpressed, cannot reverse defects in apoptosis induction caused by caspase-8 deficiency. Granzyme B cleaves procaspase-10 at an IXXD-A processing sequence to produce mature caspase-10. Mutations in the caspase-10 gene in the prodomain, p17 large protease subunit and p12 small protease subunit have been linked to a number of non-Hodgkin lymphomas in humans.

References

1. Seko Y et al. Secreted tyrosine sulfated-eIF5A mediates oxidative stress-induced apoptosis. *Sci Rep* 5:13737 (2015).
2. Pagnan G et al. The combined therapeutic effects of bortezomib and fenretinide on neuroblastoma cells involve endoplasmic reticulum stress response. *Clin Cancer Res* 15:1199-209 (2009).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.