Data Sheet (Cat.No.TMAC-00577)

Anti-Caspase-10 Antibody (3V777)

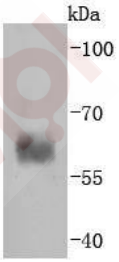
Product Details

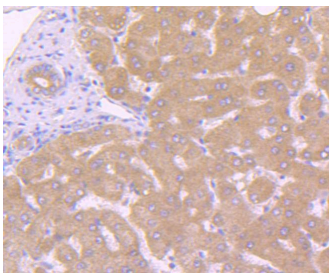
Ig Type:	IgG
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 59 kDa.
Clone:	3V777
Purification:	ProA affinity purified

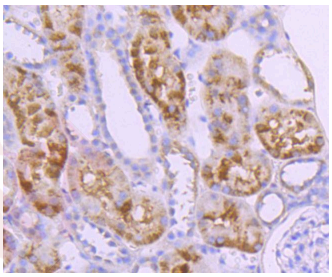
Applications

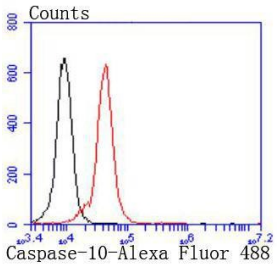
Verified Activity:

1. Western blot analysis of Caspase-10 on K562 cells lysates using anti-Caspase-10 antibody at 1/1,000 dilution.
2. Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using anti-Caspase-10 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Caspase-10 antibody. Counter stained with hematoxylin.
4. 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.









Application: FCM,IHC,IP,WB

Recommended: WB: 1:1000-2000; IHC: 1:50-200; FCM: 1:50-100

Properties

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

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: Q92851

Synonyms: FAS-Associated Death Domain Protein Interleukin-1B-Converting Enzyme 2;CASP-10;MCH4; CASP10;ICE-Like Apoptotic Protease 4;FLICE2;Caspase-10;Apoptotic Protease Mch-4

Research 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.

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