

Human Caspase-10 Antibody

Monoclonal Mouse IgG_{2B} Clone # 63131 Catalog Number: MAB834

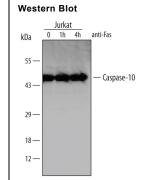
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Caspase-10 in Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 63131
Purification	Protein A or G purified from ascites
Immunogen	E. coli-derived recombinant human Caspase-10/a/B (Mch 4) Val220-lle479 Accession # AAC50644
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

DATA



Detection of Human Caspase-10 by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line untreated (-) or treated (+) with Human FAS Antigen Affinity-purified Polyclonal Antibody (Catalog # AF126) for for the indicated times. PVDF membrane was probed with 1 µg/mL of Human Caspase-10 Monoclonal Antibody (Catalog # MAB834), followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Caspase-10 at approximately 45 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.	
	*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.	
	 12 months from date of receipt -20 to -70 °C as supplied 	

- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Caspase-10 (Cysteine-aspartic acid protease 10, FLICE2 and Mch4) is a 28-29 kDa member of the peptidase C14A family of enzymes. It is widely expressed, being found in blood and epithelial cells. Caspase-10 appears to be an initiator caspase that acts on Pro-Caspases-3, -4, -6, -7, and -9. Human Pro-Caspases-10a is a 59 kDa, 521 amino acid (aa) protein. It contains two N-terminal death domains. Cleavage generates p43 plus the small mature p12 subunit. Cleavage of p43 generates a prodomain p25 and large mature p17 subunit. P17 and p12 noncovalently associate to form a 29 kDa mature heterodimer. There are at least four isoform variants. There is no apparent mouse Casp-10 gene.

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