

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	<i>E. coli</i> -derived recombinant human Caspase-10/a/B (Mch 4) Val220-Ile479 Accession # AAC50644
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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-Caspase-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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