



Anti-CASP3 monoclonal antibody, clone 1C10 (CABT-50141MH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

Mouse anti Human caspase-2, clone 1C10 recognizes human caspase-2, a 53 kDa member of the cysteine-aspartic acid protease (caspase) family. Caspase-2, also known as Neural precursor cell expressed developmentally down-regulated protein 2 (NEDD2) is required for permeabilisation of mitochondria and resulting amplification of caspase activity in response to cytotoxic stress. Cytotoxic stress induced proteolytic cleavage of the caspase-2 proenzyme forms an active caspase which cleaves other caspases in a cascade. This leads to release of cytochrome c and Smac from mitochondria and translocation of Bax from the cytoplasm to the mitochondria and ultimately cell disassembly. In adults, caspase-2 is expressed in the placenta, lung, kidney, pancreas and at lower levels in the heart, brain, liver and skeletal muscle.

Specificity	CASPASE-2
Isotype	IgG2b
Source/Host	Mouse
Species Reactivity	Human
Clone	1C10
Conjugate	Unconjugated
Applications	ELISA; WB
Format	Purified IgG - liquid
Size	100 µl
Preservative	0.09% Sodium Azide
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid

repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	CASP3 caspase 3, apoptosis-related cysteine peptidase [Homo sapiens (human)]
Official Symbol	CASP3
Synonyms	CASP3; caspase 3, apoptosis-related cysteine peptidase; CPP32; SCA-1; CPP32B; caspase-3; CASP-3; CPP-32; apopain; procaspase3; protein Yama; PARP cleavage protease; cysteine protease CPP32; SREBP cleavage activity 1; caspase 3, apoptosis-related cysteine
Entrez Gene ID	836
Protein Refseq	NP_004337
UniProt ID	P42574
Chromosome Location	4q34
Pathway	AGE/RAGE pathway; Activation of DNA fragmentation factor; Activation of caspases through apoptosome-mediated cleavage; Alpha6-Beta4 Integrin Signaling Pathway; Alzheimers disease; Alzheimers Disease; Amoebiasis; Amyotrophic lateral sclerosis (ALS);
Function	aspartic-type endopeptidase activity; cyclin-dependent protein serine/threonine kinase inhibitor activity; cysteine-type endopeptidase activity; cysteine-type endopeptidase activity involved in apoptotic process; cysteine-type endopeptidase activity involved in execution phase of apoptosis; peptidase activity; protein binding;