



Anti-CASP3 monoclonal antibody, clone 4DTQ04 (DMAB5437MH)

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

PRODUCT INFORMATION

Product Overview	Mouse anti-human caspase 3 monoclonal antibody.
Antigen Description	Caspase 3 is a caspase protein that interacts with caspase 8 and caspase 9. It is encoded by the CASP3 gene. CASP3 orthologs have been identified in numerous mammals for which complete genome data are available. Unique orthologs are also present in birds, lizards, lissamphibians, and teleosts.
Specificity	This antibody is specific to a 32 kDa protein, which is identified as Caspase 3. Caspase 3 is associated with the induction of apoptosis, is ubiquitously expressed, and is synthesized as an inactive pro-enzyme.
Immunogen	BALB/C mice were injected with recombinant full length human Caspase 3 protein.
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Human
Clone	4DTQ04
Conjugate	Unconjugated
Applications	IHC, IP, WB
Cellular Localization	Cytoplasmic
Positive Control	Tonsil
Format	This antibody is supplied as a purified immunoglobulin fraction containing sodium azide as a preservative.

Preservative	See individual product datasheet
Storage	Store at 2-8°C. Do not use beyond the expiration date stated on the label.

GENE INFORMATION

Gene Name	CASP3 caspase 3, apoptosis-related cysteine peptidase [Homo sapiens]
Synonyms	CASP3; caspase 3, apoptosis-related cysteine peptidase; CPP32; SCA-1; CPP32B; SREBP cleavage activity 1; EC 3.4.22.56; Yama; OTTHUMP00000165053; apopain; Apopain; OTTHUMP00000165055; Cysteine protease CPP32; PARP cleavage protease; Protein Yama; CPP-32; NP_004337.2; NP_116786.1; EC 3.4.22; CASP-3; procaspase3; caspase-3; OTTHUMP00000165052; OTTHUMP00000165054; OTTHU- MP00000224230; OTTHUMP00000224231; caspase 3, apoptosis-related cysteine protease
Entrez Gene ID	836
Protein Refseq	NP_004337
UniProt ID	P42574
Chromosome Location	4q34
Pathway	Activation of DNA fragmentation factor; Activation of caspases through apoptosome-mediated cleavage; Alpha6-Beta4 Integrin Signaling Pathway; Alzheimer"s disease; Amoebiasis; Androgen Receptor Signaling Pathway; Amyotrophic lateral sclerosis (ALS); Apopto
Function	aspartic-type endopeptidase activity; cysteine-type endopeptidase activity; peptidase activity; protein binding; cyclin-dependent protein kinase inhibitor activity