



Anti-CASP4 monoclonal antibody, clone 8H8 (DCABH-10838)

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

PRODUCT INFORMATION

Antigen Description	This gene encodes a protein that is a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes composed of a prodomain and a large and small protease subunit. Activation of caspases requires proteolytic processing at conserved internal aspartic residues to generate a heterodimeric enzyme consisting of the large and small subunits. This caspase is able to cleave and activate its own precursor protein, as well as caspase 1 precursor. When overexpressed, this gene induces cell apoptosis. Alternative splicing results in transcript variants encoding distinct isoforms.
Immunogen	CASP4 (AAH17839, 1 a.a. ~ 377 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Human
Clone	8H8
Conjugate	Unconjugated
Applications	Western Blot (Cell lysate); Western Blot (Transfected lysate); Western Blot (Recombinant protein); Sandwich ELISA (Recombinant protein); ELISA
Sequence Similarities	MAEGNHRKKPLKVLES LGKDFLTGVLDNLVEQNVLNWKEEEKKKYYDAKTEDKVRVMADS MQEKQRMAGQMLLQTFNIDQISPNKKAHPNMEAGPPESGESTDALKLCPHEEFLRLCKE RAEEIYPIKERNNRTRLALIICNTEFDHLPPRNGADFDITGMKELLEGLDYSVDVEENLT ARDMESALRAFATRPEHKSSDSTFLVLM SHGILEGICGTVHDEKKPDVLLYDTIFQIFNN RNCLSLKDKPKVIIV

Buffer	In 1x PBS, pH 7.4
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	CASP4 caspase 4, apoptosis-related cysteine peptidase [Homo sapiens]
Official Symbol	CASP4
Synonyms	CASP4; caspase 4, apoptosis-related cysteine peptidase; caspase 4, apoptosis related cysteine protease; caspase-4; ICE(rel)II; ICH 2; TX; CASP-4; ICE(rel)-II; protease TX; protease ICH-2; apoptotic cysteine protease Mih1/TX; caspase 4, apoptosis-related cysteine protease; ICH-2; Mih1/TX; ICEREL-II;
Entrez Gene ID	837
Protein Refseq	NP_001216
UniProt ID	P49662
Chromosome Location	11q22.2-q22.3
Pathway	Apoptosis, organism-specific biosystem; Caspase cascade in apoptosis, organism-specific biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem; NOD1/2 Signaling Pathway, organism-specific biosystem; Nucleotide-binding domain, leucine rich repeat containing receptor (NLR) signaling pathways, organism-specific biosystem.
Function	cysteine-type endopeptidase activity; peptidase activity;