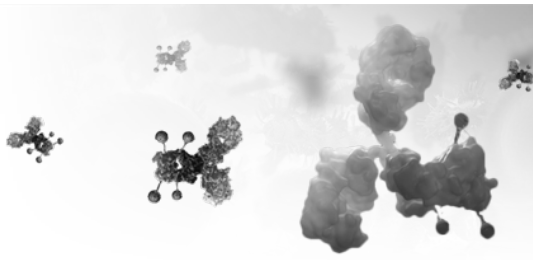

CASP8 blocking peptide (DAG-P0300)

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

PRODUCT INFORMATION

Antigen Description	This gene encodes 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, a large protease subunit, and a 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 protein is involved in the programmed cell death induced by Fas and various apoptotic stimuli. The N-terminal FADD-like death effector domain of this protein suggests that it may interact with Fas-interacting protein FADD. This protein was detected in the insoluble fraction of the affected brain region from Huntington disease patients but not in those from normal controls, which implicated the role in neurodegenerative diseases. Many alternatively spliced transcript variants encoding different isoforms have been described, although not all variants have had their full-length sequences determined. [provided by RefSeq, Jul 2008]
Specificity	Isoform 1, isoform 5 and isoform 7 are expressed in a wide variety of tissues. Highest expression in peripheral blood leukocytes, spleen, thymus and liver. Barely detectable in brain, testis and skeletal muscle.
Purity	> 95 % by SDS-PAGE.
Conjugate	Unconjugated
Applications	WB, BL
Sequence Similarities	Belongs to the peptidase C14A family.Contains 2 DED (death effector) domains.
Format	Liquid
Buffer	Preservative: 0.02% Sodium Azide Constituents: 0.1% BSA, PBS, pH 7.2
Preservative	0.02% Thimerosal

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. Preservative: 0.02% Sodium Azide Constituents: 0.1% BSA, PBS, pH 7.2

GENE INFORMATION

Gene Name	CASP8 caspase 8, apoptosis-related cysteine peptidase [Homo sapiens (human)]
Official Symbol	CASP8
Synonyms	CASP8; caspase 8, apoptosis-related cysteine peptidase; CAP4; MACH; MCH5; FLICE; ALPS2B; Casp-8; caspase-8; FADD-like ICE; MACH-alpha-1/2/3 protein; apoptotic protease Mch-5; MACH-beta-1/2/3/4 protein; apoptotic cysteine protease; ICE-like apoptotic protease 5; MORT1-associated ced-3 homolog; FADD-homologous ICE/CED-3-like protease; caspase 8, apoptosis-related cysteine protease;
Entrez Gene ID	841
mRNA Refseq	NM_001080124.1
Protein Refseq	NP_001073593.1
UniProt ID	Q14790
Chromosome Location	2q33-q34
Pathway	AGE/RAGE pathway, organism-specific biosystem; Activated TLR4 signalling, organism-specific biosystem; Activation, myristolyation of BID and translocation to mitochondria, organism-specific biosystem; Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Alzheimers Disease, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Apoptosis, organism-specific biosystem; Apoptosi
Function	cysteine-type endopeptidase activity; cysteine-type endopeptidase activity; cysteine-type endopeptidase activity involved in apoptotic process; cysteine-type endopeptidase activity involved in apoptotic signaling pathway; cysteine-type peptidase activity;

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