



Rabbit Anti-Human CASP8 Polyclonal Antibody (CABT-L2294)

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

PRODUCT INFORMATION

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| Product Overview | Polyclonal Antibody to Caspase 8 (Knockout Validated) |
| Specificity | The antibody is a rabbit polyclonal antibody raised against CASP8. It has been selected for its ability to recognize CASP8 in immunohistochemical staining and western blotting. |
| Target | CASP8 |
| Immunogen | Recombinant fragment corresponding to human CASP8 (Ser217~Asp384) |
| Isotype | IgG |
| Source/Host | Rabbit |
| Species Reactivity | Human |
| Purification | Antigen-specific affinity chromatography followed by Protein A affinity chromatography |
| Conjugate | Unconjugated |
| Applications | WB |
| Format | Liquid |
| Concentration | Lot specific |
| Size | 200 µg |
| Buffer | Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4. |
| Preservative | 0.05% Proclin-300 |

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| Storage | Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months. |
| Ship | 4°C with ice bags |

BACKGROUND

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| Introduction | <p>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]</p> |
| Keywords | CAP4;FLICE;MACH;MCH5;CysteinyI Aspartate Specific Proteinases 8;Apoptotic cysteine protease;FADD-homologous ICE/ced-3-like protease;MORT1-associated ced-3 homolog |

GENE INFORMATION

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| 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 |
| Protein Refseq | NP_001073593 |
| UniProt ID | A0A024R3Z8 |
| Chromosome Location | 2q33-q34 |

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| Pathway | AGE/RAGE pathway; Activated TLR4 signalling; Activation, myristoylation of BID and translocation to mitochondria; Alzheimers disease; Alzheimers Disease; Apoptosis; Apoptosis Modulation and Signaling; Apoptosis Modulation by HSP70; |
| Function | 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; death effector domain binding; death receptor binding; peptidase activity; protein binding; protein complex binding; protein heterodimerization activity; scaffold protein binding; tumor necrosis factor receptor binding; ubiquitin protein ligase binding; |