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CASP2 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP1327c

Specification

CASP2 Antibody (Center) Blocking Peptide - Product Information

Primary Accession P42575

CASP2 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 835

Other Names
Caspase-2, CASP-2, Neural precursor cell expressed developmentally down-regulated protein 2, NEDD-2, Protease ICH-1, Caspase-2 subunit p18, Caspase-2 subunit p13, Caspase-2 subunit p12, CASP2, ICH1, NEDD2

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP1327c was selected from the Center region of human CASP2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CASP2 Antibody (Center) Blocking Peptide - Protein Information

CASP2 Antibody (Center) Blocking Peptide - Background

CASP2 is a protein which 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. The protein exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. The proteolytic cleavage of this protein is induced by a variety of apoptotic stimuli.

CASP2 Antibody (Center) Blocking Peptide - References

Lan,Q., Morton,L.M. Blood (2009) In pressShi,M., Vivian,C.J. Cell 136 (3), 508-520 (2009)Paroni,G., Henderson,C. J. Biol. Chem. 276 (24), 21907-21915 (2001)Tiso,N., Pallavicini,A. Biochem. Biophys. Res. Commun. 225 (3), 983-989 (1996)

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Name CASP2

Synonyms ICH1, NEDD2

Function
Involved in the activation cascade of caspases responsible for apoptosis execution. Might function by either activating some proteins required for cell death or inactivating proteins necessary for cell survival (PubMed:15073321). Associates with PIDD1 and CRADD to form the PIDDosome, a complex that activates CASP2 and triggers apoptosis in response to genotoxic stress (PubMed:15073321).

Tissue Location
Expressed at higher levels in the embryonic lung, liver and kidney than in the heart and brain. In adults, higher level expression is seen in the placenta, lung, kidney, and pancreas than in the heart, brain, liver and skeletal muscle

CASP2 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides