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CASP6 Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP13835a

Specification

CASP6 Antibody (N-term) Blocking peptide - Product Information

Primary Accession P55212

CASP6 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 839

Other Names
Caspase-6, CASP-6, Apoptotic protease Mch-2, Caspase-6 subunit p18, Caspase-6 subunit p11, CASP6, MCH2

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP13835a was selected from the N-term region of CASP6. 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.

CASP6 Antibody (N-term) Blocking peptide - Protein Information

Name CASP6

Synonyms MCH2

CASP6 Antibody (N-term) Blocking peptide - Background

This gene encodes a protein which is a member of thecysteine-aspartic acid protease (caspase) family. Sequentialactivation of caspases plays a central role in the execution-phaseof cell apoptosis. Caspases exist as inactive proenzymes whichundergo proteolytic processing at conserved aspartic residues toproduce two subunits, large and small, that dimerize to form theactive enzyme. This protein is processed by caspases 7, 8 and 10,and is thought to function as a downstream enzyme in the caspaseactivation cascade. Alternative splicing of this gene results intwo transcript variants that encode different isoforms. [providedby RefSeq].

CASP6 Antibody (N-term) Blocking peptide - References

Wurstle, M.L., et al. J. Biol. Chem. 285(43):33209-33218(2010)Lee, S.Y., et al. J Thorac Oncol 5(8):1152-1158(2010)Halawani, D., et al. J. Neurosci. 30(17):6132-6142(2010)Kim, M.S., et al. APMIS 118(4):308-312(2010)Yoo, N.J., et al. Tumori 96(1):138-142(2010)

Function

Cysteine protease that plays essential roles in programmed cell death, axonal degeneration, development and innate immunity (PubMed:8663580, PubMed:32298652). During apoptosis, localizes in the nucleus and cleaves the nuclear structural protein NUMA1 and lamin A/LMNA thereby inducing nuclear shrinkage and fragmentation (PubMed:17401638, PubMed:8663580, PubMed:9463409). Furthermore, cleaves many transcription factors such as NF-kappa-B and cAMP response element-binding protein/CREBBP (PubMed:10559921, PubMed:14657026). Plays an essential role in axon degeneration during axon pruning which is the remodeling of axons during neurogenesis but not apoptosis (By similarity). Regulates B-cell programs both during early development and after antigen stimulation (By similarity). In addition, promotes the ZBP1-mediated activation of programmed cell death pathways including pyroptosis, apoptosis, and necroptosis (PANoptosis) and plays an essential role in defense against viruses (PubMed:32298652). Mechanistically, interacts with RIPK3 and enhances the interaction between RIPK3 and ZBP1, leading to ZBP1-mediated inflammasome activation and cell death (PubMed:32298652).

Cellular Location

Cytoplasm.

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CASP6 Antibody (N-term) Blocking peptide - Protocols

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

- Blocking Peptides