10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Phospho-Caspase 9(S196) Antibody Blocking peptide

Synthetic peptide
Catalog # BP3044a

Specification

Phospho-Caspase 9(S196) Antibody Blocking peptide - Product Information

Primary Accession P55211

Phospho-Caspase 9(S196) Antibody Blocking peptide - Additional Information

Gene ID 842

Other Names
Caspase-9, CASP-9, Apoptotic protease Mch-6, Apoptotic protease-activating factor 3, APAF-3, ICE-like apoptotic protease 6, ICE-LAP6, Caspase-9 subunit p35, Caspase-9 subunit p10, CASP9, MCH6

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP3044a was selected from the region of human Phospho-Caspase 9-S196. 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.

Phospho-Caspase 9(S196) Antibody Blocking peptide - Protein Information

Name CASP9

Synonyms MCH6

Function
Involved in the activation cascade of caspases responsible for apoptosis execution. Binding of caspase-9 to Apaf-1 leads to activation of the protease which then cleaves and activates effector caspases caspase-3 (CASP3) or caspase-7 (CASP7). Promotes DNA damage- induced apoptosis in a ABL1/c-Abl-dependent manner. Proteolytically cleaves poly(ADP-ribose) polymerase (PARP).

Tissue Location
Ubiquitous, with highest expression in the heart, moderate expression in liver, skeletal muscle, and pancreas. Low levels in all other tissues. Within the heart, specifically expressed in myocytes.

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Phospho-Caspase 9(S196) Antibody Blocking peptide - Protocols

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

- Blocking Peptides

Phospho-Caspase 9(S196) Antibody Blocking peptide - Images

Phospho-Caspase 9(S196) Antibody Blocking peptide - Background

Caspase 9 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 which undergo proteolytic processing at conserved aspartic residues to produce 2 subunits, large and small, that dimerize to form the active enzyme. This protein is processed by caspase APAF1; this step is thought to be one of the earliest in the caspase activation cascade.

Phospho-Caspase 9(S196) Antibody Blocking peptide - References

Martin, M.C., et al., J. Biol. Chem. 280(15):15449-15455 (2005).Raina, D., et al., J. Biol. Chem. 280(12):11147-11151 (2005).Cornelis, S., et al., Oncogene 24(9):1552-1562 (2005).Mohammad, R.M., et al., Mol. Cancer Ther. 4(1):13-21 (2005).Tacconi, S., et al., Exp. Neurol. 190(1):254-262 (2004).