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PPM1B Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP8467b

Specification

PPM1B Antibody (Center) Blocking Peptide - Product Information

Primary Accession O75688

PPM1B Antibody (Center) Blocking Peptide - Additional Information

Gene ID 5495

Other Names
Protein phosphatase 1B, Protein phosphatase 2C isoform beta, PP2C-beta, PPM1B, PP2CB

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8467b was selected from the Center region of human PPM1B. 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.

PPM1B Antibody (Center) Blocking Peptide - Protein Information

Name PPM1B

PPM1B Antibody (Center) Blocking Peptide - Background

PPM1B is a member of the PP2C family of Ser/Thr protein phosphatases. PP2C family members are known to be negative regulators of cell stress response pathways. This phosphatase has been shown to dephosphorylate cyclin-dependent kinases (CDKs), and thus may be involved in cell cycle control. Overexpression of this phosphatase is reported to cause cell-growth arrest or cell death.

PPM1B Antibody (Center) Blocking Peptide - References

Parvari, R., et al., Genomics 86(2):195-211 (2005).Prajapati, S., et al., J. Biol. Chem. 279(3):1739-1746 (2004).Seroussi, E., et al., J. Mol. Biol. 312(3):439-451 (2001).Hanada, M., et al., J. Biol. Chem. 276(8):5753-5759 (2001).Cheng, A., et al., J. Biol. Chem. 275(44):34744-34749 (2000).

Synonyms PP2CB

Function
Enzyme with a broad specificity. Dephosphorylates CDK2 and CDK6 in vitro. Dephosphorylates PRKAA1 and PRKAA2. Inhibits TBK1- mediated antiviral signaling by dephosphorylating it at 'Ser-172'. Plays an important role in the termination of TNF-alpha-mediated NF- kappa-B activation through dephosphorylating and inactivating IKBKB/IKKB.

Cellular Location
Cytoplasm, cytosol. Membrane {ECO:0000250|UniProtKB:P36993}; Lipid-anchor {ECO:0000250|UniProtKB:P36993}. Note=Weakly associates at the membrane and N-myristoylation mediates the membrane localization {ECO:0000250|UniProtKB:P36993}

Tissue Location
Highly expressed in heart and skeletal muscle.

PPM1B Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides