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PPM1F Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP8459b

Specification

PPM1F Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P49593

PPM1F Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 9647

Other Names
Protein phosphatase 1F, Ca(2+)/calmodulin-dependent protein kinase phosphatase, CaM-kinase phosphatase, CaMKPase, Partner of PIX 2, Protein fem-2 homolog, hFem-2, PPM1F, KIAA0015, POPX2

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8459b was selected from the C-term region of human PPM1F. 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.

PPM1F Antibody (C-term) Blocking Peptide - Protein Information

Name PPM1F

Synonyms KIAA0015, POPX2

Function
Dephosphorylates and concomitantly deactivates CaM-kinase II activated upon autophosphorylation, and CaM-kinases IV and I activated upon phosphorylation by CaM-kinase kinase. Promotes apoptosis.

PPM1F Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

PPM1F Antibody (C-term) Blocking Peptide - Images

PPM1F Antibody (C-term) Blocking Peptide - Background

PPM1F 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 can interact with Rho guanine nucleotide exchange factors (PIX), and thus block the effects of p21-activated kinase 1 (PAK), a protein kinase mediating biological effects downstream of Rho GTPases. Calcium/calmodulin-dependent protein kinase II gamma (CAMK2G/CAMK-II) is found to be one of the substrates of this phosphatase. The overexpression of this phosphatase or CAMK2G has been shown to mediate caspase-dependent apoptosis.

PPM1F Antibody (C-term) Blocking Peptide - References

Harvey, B.P., et al., J. Biol. Chem. 279(23):24889-24898 (2004).Izmailova, E., et al., Nat. Med. 9(2):191-197 (2003).Koh, C.G., et al., Curr. Biol. 12(4):317-321 (2002).Tan, K.M., et al., J. Biol. Chem. 276(47):44193-44202 (2001).