

**PPM1F Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8459a**

**Specification**

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**PPM1F Antibody (N-term) Blocking Peptide - Product Information**

Primary Accession [P49593](#)

**PPM1F Antibody (N-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 [AP8459a](/product/products/AP8459a) was selected from the N-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 (N-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 (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **PPM1F Antibody (N-term) Blocking Peptide - Images**

#### **PPM1F Antibody (N-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 (N-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).