

PPM1F Blocking Peptide (Center)Synthetic peptide
Catalog # BP19968c**Specification****PPM1F Blocking Peptide (Center) - Product Information**Primary Accession [P49593](#)
Other Accession [NP_055449.1](#)**PPM1F Blocking Peptide (Center) - 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 is selected
from aa 290-303 of HUMAN PPM1F**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 Blocking Peptide (Center) - Protein Information****Name** PPM1F**Synonyms** KIAA0015, POPX2**PPM1F Blocking Peptide (Center) - Background**

The protein encoded by this gene 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. An alternatively spliced transcript variant has been identified, but its full-length nature has not been determined.

PPM1F Blocking Peptide (Center) - ReferencesHarvey, B.P., et al. J. Biol. Chem. 279(23):24889-24898(2004)
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)
Kitani, T., et al. J. Biochem. 125(6):1022-1028(1999)

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 Blocking Peptide (Center) -
Protocols**

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

- [Blocking Peptides](#)