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PPM1F Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19968c

Product Information

Application	WB, E
Primary Accession	P49593
Other Accession	NP_055449.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB41919
Calculated MW	49831
Antigen Region	275-303

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	This PPM1F antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 275-303 amino acids from the Central region of human PPM1F.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PPM1F Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

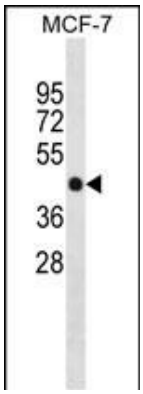
Background

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.

References

Harvey, 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)

Images



PPM1F Antibody (Center) (Cat. #AP19968c) western blot analysis in MCF-7 cell line lysates (35ug/lane).This demonstrates the PPM1F antibody detected the PPM1F protein (arrow).