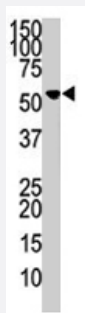


# PPM1F polyclonal antibody

Catalog # PAB2155

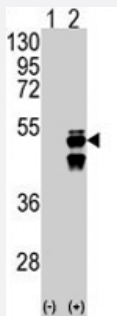
Size 400 uL

## Applications



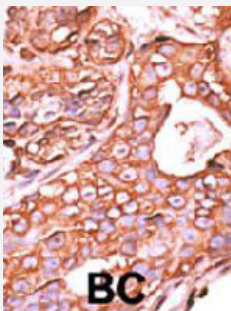
### Western Blot (Tissue lysate)

Western blot analysis of PPM1F polyclonal antibody (Cat # PAB2155) in mouse liver tissue lysate (35 ug/lane). PPM1F (arrow) was detected using the purified Polyclonal antibody.



### Western Blot (Transfected lysate)

Western blot analysis of PPM1F (arrow) using PPM1F polyclonal antibody (Cat # PAB2155). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PPM1F gene (Lane 2) (Origene Technologies).



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with PPM1F polyclonal antibody (Cat # PAB2155), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma.

## Specification

### Product Description

Rabbit polyclonal antibody raised against synthetic peptide of PPM1F.

### Immunogen

A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human PPM1F.

Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Tissue lysate)

Western blot analysis of PPM1F polyclonal antibody (Cat # PAB2155) in mouse liver tissue lysate (35 ug/lane). PPM1F (arrow) was detected using the purified Polyclonal antibody.

- Western Blot (Transfected lysate)

Western blot analysis of PPM1F (arrow) using PPM1F polyclonal antibody (Cat # PAB2155). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PPM1F gene (Lane 2) (Origene Technologies).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with PPM1F polyclonal antibody (Cat # PAB2155), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining.

This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma.

## Gene Info — PPM1F

Entrez GeneID	<a href="#">9647</a>
Protein Accession#	<a href="#">NP_055449;P49593</a>
Gene Name	PPM1F
Gene Alias	CaMKPase, FEM-2, KIAA0015, POPX2, hFEM-2

Gene Description	protein phosphatase 1F (PP2C domain containing)
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	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. [provided by RefSeq]
Other Designations	Ca(2+)/calmodulin-dependent protein kinase phosphatase CaM-kinase phosphatase PP2C phosphatase partner of PIX 2 protein phosphatase 1F

## Publication Reference

- [Regulation of the multifunctional Ca<sup>2+</sup>/calmodulin-dependent protein kinase II by the PP2C phosphatase PPM1F in fibroblasts.](#)

Harvey BP, Banga SS, Ozer HL.

The Journal of Biological Chemistry 2004 Jun; 279(23):24889.

- [HIV-1 Tat reprograms immature dendritic cells to express chemoattractants for activated T cells and macrophages.](#)

Izmailova E, Bertley FM, Huang Q, Makori N, Miller CJ, Young RA, Aldovini A.

Nature Medicine 2003 Feb; 9(2):191.

## Disease

- [Kidney Failure](#)
- [Tobacco Use Disorder](#)