

Rabbit anti-Human PPM1A Polyclonal Antibody | anti-PPM1A antibody

Anti-PPM1A Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255620	Rabbit	Human	Immunoprecipitation, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

PPM1A; Polyclonal Antibody; Anti-PPM1A Antibody; Rabbit Polyclonal; PPM1A Antibody; Rabbit PAb; Antigen Affinity Purified; protein phosphatase; Mg2+/Mn2+ dependent; 1A; Anti-PP2C-ALPHA Antibody; Anti-PP2CA Antibody; Anti-PP2Calpha Antibody; anti-PPM1A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human PPM1A
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-PPM1A antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Immunogen	Recombinant Human PPM1A Protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human PPM1A (rh PPM1A). PPM1A specific IgG was purified by Human PPM1A affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

PPM1A was immunoprecipitated using: Lane A: 0.5 mg MCF7 Whole Cell Lysate 4 uL anti-PPM1A rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-PPM1A rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 43 kDa. Observed band size: 43 kDa.



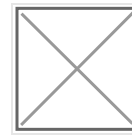
IHC (Immunohistochemistry)

Immunochemical staining of human PPM1A in human breast carcinoma with rabbit polyclonal antibody at 1:3000 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining of human PPM1A in human colon carcinoma with rabbit polyclonal antibody at 1:3000 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)

Anti-PPM1A rabbit polyclonal antibody at 1:2000 dilution Lane A: HeLa Whole Cell Lysate Lane B: Raji Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 42 kDa Observed band size: 44 kDa (We are unsure as to the identity of these extra bands).

ADDITIONAL INFORMATION

Related Product Information for anti-PPM1A antibody	Protein phosphatase 1A (PPM1A/PP2CA) is an enzyme belonging to the PP2C family of Ser/Thr protein phosphatases. Members of PP2C family are negative regulators of cell stress response pathways and the MAP kinases and MAP kinase kinases. It has also been demonstrated to inhibit the activation of p38 and JNK kinase cascades. PPM1A dephosphorylates and promotes nuclear export of TGFbeta-activated Smad2/3. Ectopic expression of PPM1A abolishes TGFbeta-induced antiproliferative and transcriptional responses, whereas depletion of PPM1A enhances TGFbeta signaling in mammalian cells. It has been demonstrated that PPM1A/PP2CA, through dephosphorylation of Smad2/3, plays a critical role in terminating TGFbeta signaling. Overexpression of PPM1A is reported to activate the expression of the tumor suppressor gene TP53/p53, which leads to cell apoptosis.
Product Categories/Family for anti-PPM1A antibody	Phosphatases and Regulators
References	Lin X, et al. (2006) PPM1A functions as a Smad phosphatase to terminate TGFbeta signaling. Cell. 125(5): 915-28. Marc F, et al. (2003) Protein phosphatase 2C binds selectively to and dephosphorylates metabotropic glutamate receptor 3. Proc Natl Acad. 100 (26): 16006-11. Mann DJ, et al. (1992) Mammalian protein serine/threonine phosphatase 2C: cDNA cloning and comparative analysis of amino acid sequences. Biochim Biophys Acta. 1130 (1): 100-4.

NCBI AND UNIPROT INFORMATION

NCBI GI #	193211600
NCBI GeneID	5494
NCBI Accession #	NP_808821.2
NCBI GenBank Nucleotide #	NM_177952.2
UniProt Accession #	P35813; O75551; B5BU11; J3KNM0
Molecular Weight	42,448 Da
NCBI Official Full Name	protein phosphatase 1A isoform 3
NCBI Official Synonym Full Names	protein phosphatase, Mg2+/Mn2+ dependent, 1A
NCBI Official Symbol	PPM1A
NCBI Official Synonym Symbols	PP2CA; PP2Calpha; PP2C-ALPHA
NCBI Protein Information	protein phosphatase 1A; protein phosphatase 1A (formerly 2C), magnesium-dependent, alpha isoform
UniProt Protein Name	Protein phosphatase 1A
UniProt Gene Name	PPM1A
UniProt Synonym Gene Names	PPPM1A; PP2C-alpha
UniProt Entry Name	PPM1A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

