

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

Anti-PPM1A Antibody, Rabbit Polyclonal

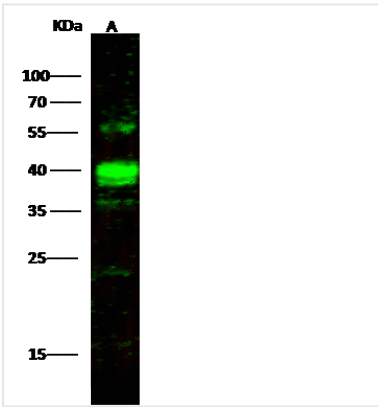
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA257123	Rabbit	Mouse	Immunoprecipitation, ELISA, Western Blot

PRODUCT SYNONYMS

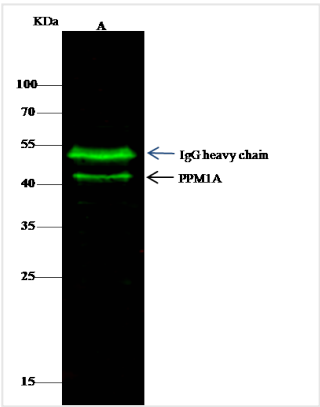
PPM1A; Polyclonal Antibody; Anti-PPM1A Antibody; Rabbit Polyclonal; PPM1A/PP2CA/PP2C-alpha Antibody; Rabbit PAb; Antigen Affinity Purified; protein phosphatase; Mg2+/Mn2+ dependent; 1A; Anti-2310003C21Rik Antibody; Anti-2900017D14Rik Antibody; Anti-AI427932 Antibody; Anti-AU017636 Antibody; Anti-MMPa-2 Antibody; Anti-MPPa-1 Antibody; anti-PPM1A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mouse PPM1A/PP2C-alpha
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-PPM1A antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Mouse PPM1A protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Mouse PPM1A (rM PPM1A). PPM1A specific IgG was purified by mouse 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.



WB (Western Blot)
Anti-PPM1A rabbit polyclonal antibody at 1:500 dilutionLane A: 293T Whole Cell LysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.Developed using the Odyssey technique.Performed under reducing conditions.Predicted band size:42 kDaObserved band size:40 kDa(We are unsure as to the identity of these extra bands.



IP (Immunoprecipitation)
Mouse PPM1A was immunoprecipitated using:Lane A:0.5 mg 293T Whole Cell Lysate2 uL anti-Mouse PPM1A rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose.Primary antibody:Anti-Mouse PPM1A rabbit polyclonal antibody,at 1:200 dilutionSecondary antibody:Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilutionDeveloped using the odssey technique.Performed under reducing conditions.Predicted band size: 42 kDaObserved band size: 42 kDa

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 #	6679443
NCBI GeneID	19042
NCBI Accession #	NP_032936.1
NCBI GenBank Nucleotide #	NM_008910.3
UniProt Accession #	P49443
Molecular Weight	42,433 Da
NCBI Official Full Name	protein phosphatase 1A
NCBI Official Synonym Full Names	protein phosphatase 1A, magnesium dependent, alpha isoform
NCBI Official Symbol	Ppm1a
NCBI Official Synonym Symbols	MMPa-2; MPPa-1; AI427932; AU017636; 2310003C21Rik; 2900017D14Rik

NCBI Protein Information	protein phosphatase 1A; Mpp alpha; PP2C-alpha; protein phosphatase 1A; protein phosphatase 2C isoform alpha
UniProt Protein Name	Protein phosphatase 1A
UniProt Gene Name	Ppm1a
UniProt Synonym Gene Names	Pppm1a; PP2C-alpha
UniProt Entry Name	PPM1A_MOUSE

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/polyclonal/ppm1a-antibody-immunoprecipitation-western-blot-elisa/257123>