

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

Anti-PPM1A Antibody

CATALOG # AAA125457	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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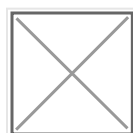
PRODUCT SYNONYMS

PPM1A; Polyclonal Antibody; Anti-PPM1A Antibody; Protein phosphatase 1A; Protein phosphatase 2C isoform alpha; PP2C-alpha; Protein phosphatase 1A; PPPM1A; anti-PPM1A antibody

PRODUCT SPECIFICATIONS

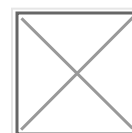
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	455
Applicable Applications for anti-PPM1A antibody	ELISA (Direct ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence of human PPM1A(HAGSQVAKYCCEHLLDHITNNQDFK).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen store at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



WB (Western Blot)

Figure 1. Western blot analysis of PPM1A using anti-PPM1A antibody.



FCM/FACS (Flow Cytometry)

ADDITIONAL INFORMATION

Related Product Information for anti-PPM1A antibody	Description: Rabbit IgG polyclonal antibody for PPM1A detection. Tested with WB, IHC-P, Direct ELISA in Human. Background: Protein phosphatase 1A is an enzyme that in humans is encoded by the PPM1A gene. It is mapped to 14q23.1. 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 dephosphorylates, and negatively regulates the activities of, MAP kinases and MAP kinase kinases. It has been shown to inhibit the activation of p38 and JNK kinase cascades induced by environmental stresses. This phosphatase can also dephosphorylate cyclin-dependent kinases, and thus may be involved in cell cycle control. Overexpression of this phosphatase is reported to activate the expression of the tumor suppressor gene TP53/p53, which leads to G2/M cell cycle arrest and apoptosis. Three alternatively spliced transcript variants encoding distinct isoforms have been described.
References	1. Lin, X., Duan, X., Liang, Y.-Y., Su, Y., Wrighton, K. H., Long, J., Hu, M., Davis, C. M., Wang, J., Brunicardi, F. C., Shi, Y., Chen, Y.-G., Meng, A., Feng, X.-H. PPM1A functions as a Smad phosphatase to terminate TGF-beta signaling. Cell 125: 915-928, 2006. Note: Editorial Expression of Concern: Cell 165: 498 only, 2016. Editorial Note: Cell 166: 1597 only, 2016. 2. Mann, D. J., Campbell, D. G., McGowan, C. H., Cohen, P. T. W. Mammalian protein serine/threonine phosphatase 2C: cDNA cloning and comparative analysis of amino acid sequences. Biochim. Biophys. Acta 1130: 100-104, 1992. 3. Takekawa, M., Maeda, T., Saito, H. Protein phosphatase 2C-alpha inhibits the human stress-responsive p38 and JNK MAPK pathways. EMBO J. 17: 4744-4752, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	193211600
NCBI GeneID	5494
NCBI Accession #	NP_808821.2
NCBI GenBank Nucleotide #	NP_808821.2
UniProt Accession #	P35813
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
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.