

Datasheet for ABIN7603116 **anti-PPM1A antibody (N-Term)**

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Overview

Quantity:	100 µg
Target:	PPM1A
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PPM1A antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-PPM1A Picoband® Antibody
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human PPM1A, identical to the related mouse and rat sequences.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-PPM1A Picoband® Antibody (ABIN7603116). Tested in ELISA, IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	PPM1A
Alternative Name:	PPM1A (PPM1A Products)
Background:	Synonyms: Protein phosphatase 1A, Protein phosphatase 2C isoform alpha, PP2C-alpha, Protein phosphatase 1A, PPM1A, PPPM1A Tissue Specificity: Ubiquitous with higher expression in heart, brain and skeletal muscle. 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.
Molecular Weight:	40 kDa
Gene ID:	5494
UniProt:	P35813

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human ELISA, 0.1-0.5 µg/mL, - 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.
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Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg NaN₃.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.