Mouse anti-Human PPP1A Monoclonal Antibody | anti-PPP1CA antibody

PPP1A Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290513	**Mouse**	**Human**	**Immunohistochemistry, Immunocytochemistry, Western Blot**

PRODUCT SYNONYMS

PPP1A; Monoclonal Antibody; PPP1A Antibody; Purified Mouse Monoclonal Antibody (Mab); Alpha isoform serine threonine protein phosphatase PP1alpha 1 catalytic subunit; Catalytic subunit; EC 3.1.3.16; MGC15877; MGC1674; PP 1A; PP-1A; PP1A; PP1A_HUMAN; PP1alpha; PP2C ALPHA; PP2CA; Ppp1ca; Protein Phosphatase 2C Alpha Isoform; Serine threonine protein phosphatase PP1 alpha catalytic subunit; Serine threonine protein phosphatase PP1 alpha catalytic subunit protein phosphatase 1; Serine/threonine-protein phosphatase PP1-alpha catalytic subunit.; anti-PPP1CA antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Form/Format	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol
Sequence Length	341
Applicable Applications for anti-PPP1CA antibody	IHC (Immunohistochemistry), ICC (Immunocytochemistry), WB (Western Blot)
Antigen Source	Human
Antigen Type	Recombinant Protein
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES

IHC (Immunohistochemisry)
IHC of paraffin-embedded human breast cancer using anti-PPP1A mouse mAb diluted 1/500-1/1000.

ICC (Immunocytochemistry)
Immunocytochemistry stain of Hela using PPP1A mouse mAb (1:300).

WB (Western Blot)
Western blot detection of PPP1A in MCF7,K562,Hela,HEPG2 and Jurkat whole cell lysates using PPP1A mouse mAb (1:1000 diluted).Predicted band size: 38KDa.Observed band size: 38KDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PPP1CA antibody	Protein phosphatase that associates with over 200 regulatory proteins to form highly specific holoenzymes which dephosphorylate hundreds of biological targets. Protein phosphatase 1 (PP1) is essential for cell division, and participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. Involved in regulation of ionic conductances and long-term synaptic plasticity. May play an important role in dephosphorylating substrates such as the postsynaptic density-associated Ca(2+)/calmodulin dependent protein kinase II. Component of the PTW/PP1 phosphatase complex, which plays a role in the control of chromatin structure and cell cycle progression during the transition from mitosis into interphase. Regulates NEK2 function in terms of kinase activity and centrosome number and splitting, both in the presence and absence of radiation-induced DNA damage. Regulator of neural tube and optic fissure closure, and enteric neural crest cell (ENCCs) migration during development. In balance with CSNK1D and CSNK1E, determines the circadian period length, through the regulation of the speed and rhythmicity of PER1 and PER2 phosphorylation. May dephosphorylate CSNK1D and CSNK1E.
Product Categories/Family for anti-PPP1CA antibody	Cancer; Metabolism; Neuroscience; Signal transduction
References	Song Q.,et al.Gene 129:291-295(1993). Durfee T.,et al.Genes Dev. 7:555-569(1993). Tung L.,et al.Submitted (APR-1991) to the EMBL/GenBank/DDBJ databases. Ota T.,et al.Nat. Genet. 36:40-45(2004). Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.

NCBI AND UNIPROT INFORMATION

NCBI GI #	56790945
NCBI GeneID	5499
NCBI Accession #	NP_001008709.1
NCBI GenBank Nucleotide #	NM_001008709.1
UniProt Accession #	P62136; P08129; P20653; P22802; Q07161; A6NNR3; B2R908
Molecular Weight	37512
NCBI Official Full Name	serine/threonine-protein phosphatase PP1-alpha catalytic subunit isoform 3
NCBI Official Synonym Full Names	protein phosphatase 1, catalytic subunit, alpha isozyme
NCBI Official Symbol	PPP1CA
NCBI Official Synonym Symbols	PP1A; PP-1A; PPP1A; PP1alpha
NCBI Protein Information	serine/threonine-protein phosphatase PP1-alpha catalytic subunit
UniProt Protein Name	Serine/threonine-protein phosphatase PP1-alpha catalytic subunit
UniProt Gene Name	**PPP1CA**
UniProt Synonym Gene Names	PPP1A; PP-1A
UniProt Entry Name	PP1A_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.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/ppp1a-antibody-immunohistochemistry-immunocytochemistry-western-blot-elisa/290513