

Rabbit anti-Human PPP1CA Polyclonal Antibody | anti-PPP1CA antibody

PPP1CA Antibody

CATALOG # AAA233267	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunofluorescence, Immunohistochemistry, ELISA
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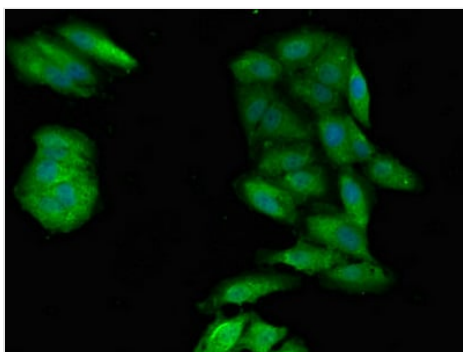
PRODUCT SYNONYMS

PPP1CA; Polyclonal Antibody; PPP1CA Antibody; Serine/threonine-protein phosphatase PP1-alpha catalytic subunit; PP-1A; PPP1A; anti-PPP1CA antibody

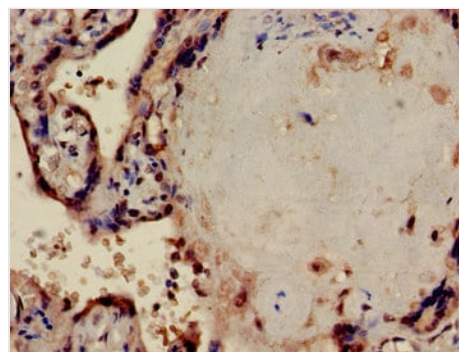
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	>95%, Protein G purified
Form/Format	Liquid
Sequence Length	341
Applicable Applications for anti-PPP1CA antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA
Immunogen	Recombinant Human Serine/threonine-protein phosphatase PP1-alpha catalytic subunit protein (192-330AA)
Conjugation	Non-conjugated
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.

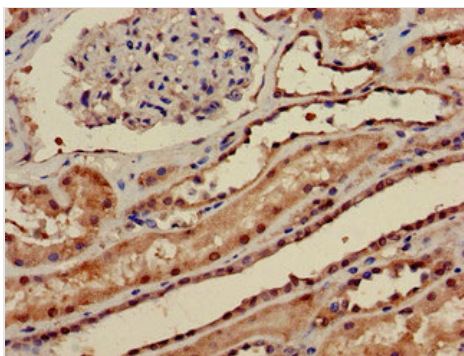
IMAGES


IHC (Immunohistochemistry)

Immunofluorescent analysis of HeLa cells using AAA233267 at a dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)


IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human placenta tissue using AAA233267 at dilution of 1:100



IHC (Immunohistochemistry)
Immunohistochemistry of paraffin-embedded human kidney tissue using AAA233267 at dilution of 1:100

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. Dephosphorylates the 'Ser-418' residue of FOXP3 in regulatory T-cells (Treg) from patients with rheumatoid arthritis, thereby inactivating FOXP3 and rendering Treg cells functionally defective (PubMed:23396208).
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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	32,595 Da
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
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

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.

