

Datasheet for ABIN6146059
anti-PPP1R12A antibody (AA 1-200)

6 Images

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Overview

Quantity:	100 µL
Target:	PPP1R12A
Binding Specificity:	AA 1-200
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PPP1R12A antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-200 of human PPP1R12A (NP_002471.1).
Sequence:	MKMADAKQKR NEQLKRWIGS ETDLEPPVVK RQKTKVKFDD GAVFLAACSS GDTDEVLKLL HRGADINYAN VDGLTALHQA CIDDNVDMVK FLVENGANIN QPDNEGWIPL HAAASCGYLD IAEFLIGQGA HVGAVNSEGD TPLDIAEEEE MEELLQNEVN RQGV DIEAAR KEEERIMLRD ARQWLNSGHI NDVRHAKSGG
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

Target:	PPP1R12A
Alternative Name:	PPP1R12A (PPP1R12A Products)
Background:	<p>Myosin phosphatase target subunit 1, which is also called the myosin-binding subunit of myosin phosphatase, is one of the subunits of myosin phosphatase. Myosin phosphatase regulates the interaction of actin and myosin downstream of the guanosine triphosphatase Rho. The small guanosine triphosphatase Rho is implicated in myosin light chain (MLC) phosphorylation, which results in contraction of smooth muscle and interaction of actin and myosin in nonmuscle cells. The guanosine triphosphate (GTP)-bound, active form of RhoA (GTP.RhoA) specifically interacted with the myosin-binding subunit (MBS) of myosin phosphatase, which regulates the extent of phosphorylation of MLC. Rho-associated kinase (Rho-kinase), which is activated by GTP. RhoA, phosphorylated MBS and consequently inactivated myosin phosphatase. Overexpression of RhoA or activated RhoA in NIH 3T3 cells increased phosphorylation of MBS and MLC. Thus, Rho appears to inhibit myosin phosphatase through the action of Rho-kinase. Several transcript variants encoding different isoforms have been found for this gene.,PPP1R12A,M130,MBS,MYPT1,MYPT1,Epigenetics & Nuclear Signaling,Signal Transduction,Kinase,Serine/threonine kinases,Cell Biology & Developmental Biology,Cell Cycle,Cytoskeleton,Motor Proteins,Actins,PPP1R12A</p>
Molecular Weight:	105 kDa/109 kDa/111 kDa/115 kDa
Gene ID:	4659
UniProt:	O14974
Pathways:	M Phase

Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200,IP,1:50 - 1:100
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

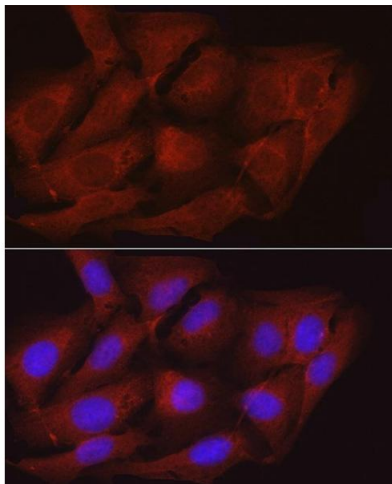
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide

Handling

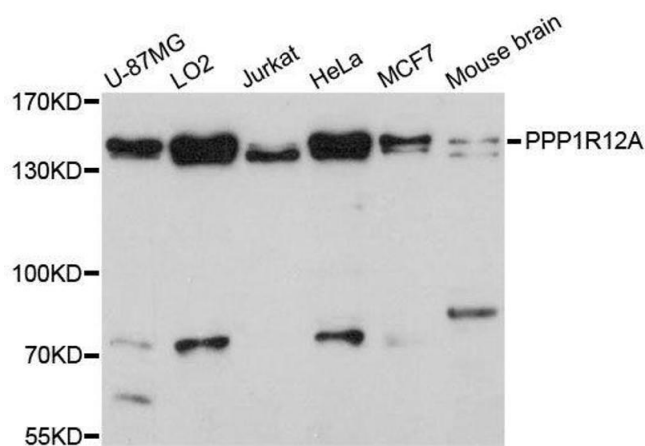
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



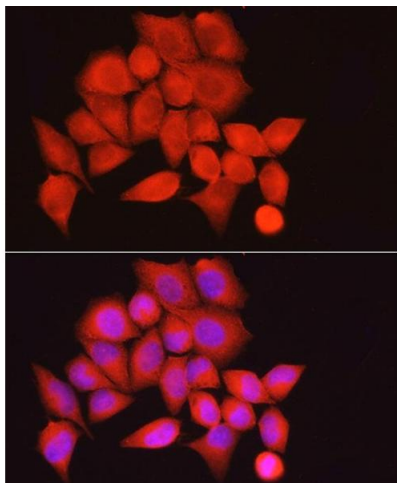
Immunofluorescence

Image 1. Immunofluorescence analysis of U2OS cells using PPP1R12A Rabbit pAb (ABIN6128260, ABIN6146059, ABIN6146061 and ABIN6213896) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using PPP1R12A antibody.



Immunofluorescence

Image 3. Immunofluorescence analysis of HeLa cells using PPP1R12A Rabbit pAb (ABIN6128260, ABIN6146059, ABIN6146061 and ABIN6213896) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN6146059.