

Datasheet for ABIN6146060
anti-PPP1R12A antibody (AA 710-970)

2 Images

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Overview

Quantity:	100 µL
Target:	PPP1R12A
Binding Specificity:	AA 710-970
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PPP1R12A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 710-970 of human PPP1R12A (NP_002471.1).
Sequence:	TIGRSRSTRT REQENEEKEK EEKEKQDKEK QEEKKESETS REDEYKQKYS RTYDETYQRY RPVSTSSSTT PSSSLSTMSS SLYASSQLNR PNSLVGITSA YSRGITKENE REGEKREEEK EGEDKSQPKS IRERRRPREK RRSTGVSVFWT QSDENEQEQ QSDTEEGSNK KETQTDSISR YETSSTSAGD RYDSLLGRSG SYSYLEERKP YSSRLEKDDSD TDFKKLYEQI LAENEKLKAAQ LHDTNMELTD LKLQLEKATQ R
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,IHC,1:50 - 1:200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

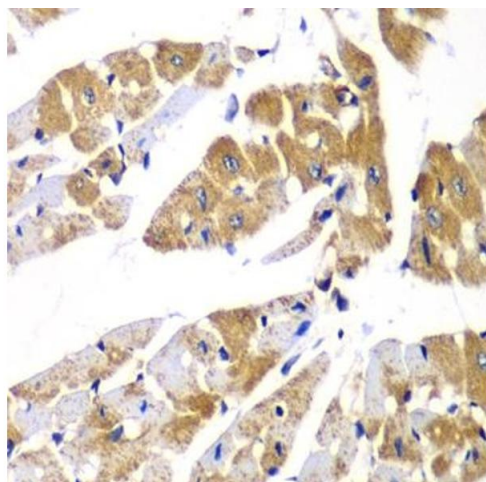
Handling

should be handled by trained staff only.

Storage: -20 °C

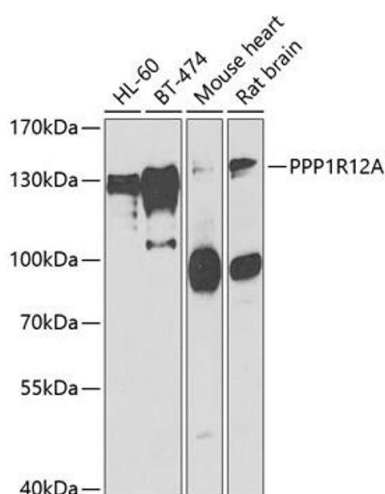
Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Images



Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded mouse heart using PPP1R12A Antibody (ABIN6128261, ABIN6146060, ABIN6146062 and ABIN6222412) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using PPP1R12A antibody (ABIN6128261, ABIN6146060, ABIN6146062 and ABIN6222412) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.