

PPP1R16B Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17590c

Specification

PPP1R16B Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q96T49
Other Accession	Q8VHQ3 , Q95N27 , NP_001166206.1
Reactivity	Human
Predicted	Bovine, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	63551
Antigen Region	372-399

PPP1R16B Antibody (Center) - Additional Information

Gene ID 26051

Other Names

Protein phosphatase 1 regulatory inhibitor subunit 16B, Ankyrin repeat domain-containing protein 4, CAAX box protein TIMAP, TGF-beta-inhibited membrane-associated protein, hTIMAP, PPP1R16B, ANKRD4, KIAA0823

Target/Specificity

This PPP1R16B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 372-399 amino acids from the Central region of human PPP1R16B.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PPP1R16B Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

PPP1R16B Antibody (Center) - Protein Information

Name PPP1R16B

Synonyms ANKRD4, KIAA0823

Function Regulator of protein phosphatase 1 (PP1) that acts as a positive regulator of pulmonary endothelial cell (EC) barrier function (PubMed:[18586956](#)). Involved in the regulation of the PI3K/AKT signaling pathway, angiogenesis and endothelial cell proliferation (PubMed:[25007873](#)). Regulates angiogenesis and endothelial cell proliferation through the control of ECE1 dephosphorylation, trafficking and activity (By similarity). Protects the endothelial barrier from lipopolysaccharide (LPS)-induced vascular leakage (By similarity). Involved in the regulation of endothelial cell filopodia extension (By similarity). May be a downstream target for TGF-beta1 signaling cascade in endothelial cells (PubMed:[16263087](#), PubMed:[18586956](#)). Involved in PKA-mediated moesin dephosphorylation which is important in EC barrier protection against thrombin stimulation (PubMed:[18586956](#)). Promotes the interaction of PPP1CA with RPSA/LAMR1 and in turn facilitates the dephosphorylation of RPSA/LAMR1 (PubMed:[16263087](#)). Involved in the dephosphorylation of EEF1A1 (PubMed:[26497934](#)).

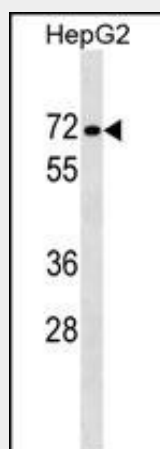
Cellular Location

Cell membrane. Cell membrane; Lipid-anchor. Nucleus. Cell projection. Note=Colocalizes with RPSA/LAMR1 in the cell membrane (PubMed:[16263087](#)). Localizes to the perinuclear region (By similarity). Colocalizes with PTEN at the tip of EC projections (PubMed:[25007873](#)). {ECO:0000250|UniProtKB:Q95N27, ECO:0000269|PubMed:[16263087](#), ECO:0000269|PubMed:[25007873](#)}

PPP1R16B Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PPP1R16B Antibody (Center) - Images

PPP1R16B Antibody (Center) (Cat. #AP17590c) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the PPP1R16B antibody detected the PPP1R16B protein (arrow).

PPP1R16B Antibody (Center) - Background

The protein encoded by this gene is membrane-associated and contains five ankyrin repeats, a protein phosphatase-1-interacting domain, and a carboxy-terminal CAAX box domain. Synthesis of the encoded protein is inhibited by transforming growth factor beta-1. The protein may bind to the membrane through its CAAX box domain and may act as a signaling molecule through interaction with protein phosphatase-1. Alternatively spliced transcript variants encoding different isoforms have been identified in this gene.

PPP1R16B Antibody (Center) - References

Csortos, C., et al. Am. J. Physiol. Lung Cell Mol. Physiol. 295 (3), L440-L450 (2008) :
Kim, K., et al. Biochem. Biophys. Res. Commun. 338(3):1327-1334(2005)
Homma, K., et al. J. Mol. Biol. 343(5):1207-1220(2004)
Cao, W., et al. Am. J. Physiol., Cell Physiol. 283 (1), C327-C337 (2002) :
Deloukas, P., et al. Nature 414(6866):865-871(2001)

PPP1R16B Antibody (Center) - Citations

- [PKC mediated phosphorylation of TIMAP regulates PP1c activity and endothelial barrier function.](#)
- [Regulation of merlin by protein phosphatase 1-TIMAP and EBP50 in endothelial cells.](#)
- [TIMAP-protein phosphatase 1-complex controls endothelin-1 production via ECE-1 dephosphorylation.](#)