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PPP2R1A Antibody(C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19717b

Specification

PPP2R1A Antibody(C-term) - Product Information

Application	**WB,E**
Primary Accession	P30153
Other Accession	P54612, Q76MZ3, Q32PI5, NP_055040.2
Reactivity	**Human**
Predicted	**Bovine, Mouse, Pig**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**65309**
Antigen Region	**454-481**

PPP2R1A Antibody(C-term) - Additional Information

Gene ID 5518

Other Names
Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform, Medium tumor antigen-associated 61 kDa protein, PP2A subunit A isoform PR65-alpha, PP2A subunit A isoform R1-alpha, PPP2R1A

Target/Specificity
This PPP2R1A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 454-481 amino acids from the C-terminal region of human PPP2R1A.

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
PPP2R1A Antibody(C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PPP2R1A Antibody(C-term) - Protein Information

Name PPP2R1A

Function The PR65 subunit of protein phosphatase 2A serves as a scaffolding molecule to coordinate the assembly of the catalytic subunit and a variable regulatory B subunit. Upon interaction with GNA12 promotes dephosphorylation of microtubule associated protein TAU/MAPT (PubMed:15525651). Required for proper chromosome segregation and for centromeric localization of SGO1 in mitosis (PubMed:16580887). Together with RACK1 adapter, mediates dephosphorylation of AKT1 at 'Ser-473', preventing AKT1 activation and AKT-mTOR signaling pathway (By similarity). Dephosphorylation of AKT1 is essential for regulatory T-cells (Treg) homeostasis and stability (By similarity).

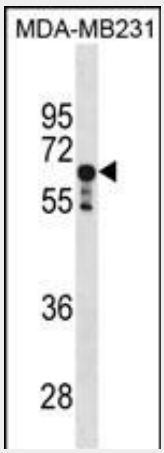
Cellular Location
Cytoplasm {ECO:0000250|UniProtKB:Q32PI5}. Nucleus. Chromosome, centromere. Lateral cell membrane. Cell projection, dendrite. Note=Centromeric localization requires the presence of BUB1.

PPP2R1A Antibody(C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PPP2R1A Antibody(C-term) - Images



PPP2R1A Antibody (C-term) (Cat. #AP19717b) western blot analysis in MDA-MB231 cell line lysates (35ug/lane).This demonstrates the PPP2R1A antibody detected the PPP2R1A protein (arrow).

PPP2R1A Antibody(C-term) - Background

This gene encodes a constant regulatory subunit of protein phosphatase 2. Protein phosphatase 2 is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit and a

constant regulatory subunit, that associates with a variety of regulatory subunits. The constant regulatory subunit A serves as a scaffolding molecule to coordinate the assembly of the catalytic subunit and a variable regulatory B subunit. This gene encodes an alpha isoform of the constant regulatory subunit A. Alternatively spliced transcript variants have been described. [provided by RefSeq].

PPP2R1A Antibody(C-term) - References

Jones, S., et al. Science 330(6001):228-231(2010)
Schmitz, M.H., et al. Nat. Cell Biol. 12(9):886-893(2010)
Heikkinen, P.T., et al. J. Biol. Chem. 285(6):3740-3749(2010)
Dupont, W.D., et al. Cancer 116(1):8-19(2010)
Wang, Q., et al. Neoplasia 11(10):1012-1021(2009)