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PPP2R1A Antibody (clone 4E6)

Mouse Monoclonal Antibody
Catalog # ALS14512

Specification

PPP2R1A Antibody (clone 4E6) - Product Information

Application	**WB, IHC**
Primary Accession	P30153
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**65kDa KDa**

PPP2R1A Antibody (clone 4E6) - 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
Human PPP2R1A

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions
PPP2R1A Antibody (clone 4E6) is for research use only and not for use in diagnostic or therapeutic procedures.

PPP2R1A Antibody (clone 4E6) - 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

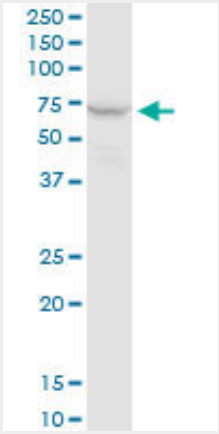
Cytoplasm {ECO:0000250|UniProtKB:Q32PI5}. Nucleus. Chromosome, centromere. Lateral cell membrane. Cell projection, dendrite. Note=Centromeric localization requires the presence of BUB1.

PPP2R1A Antibody (clone 4E6) - Protocols

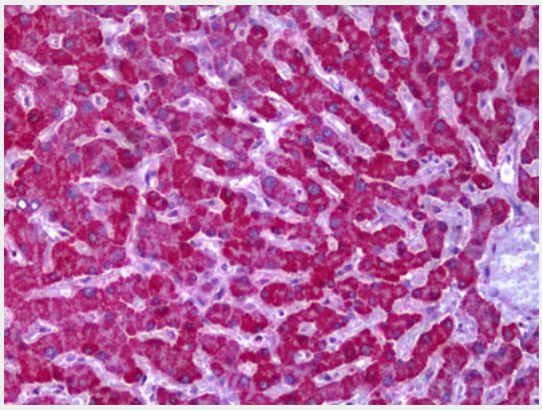
Provided below are standard protocols that you may find useful for product applications.

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

PPP2R1A Antibody (clone 4E6) - Images



PPP2R1A monoclonal antibody, clone 4E6. Western blot of PPP2R1A expression in Jurkat cell lysate.



Anti-PPP2R1A antibody IHC of human liver.

PPP2R1A Antibody (clone 4E6) - Background

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. Required for proper

chromosome segregation and for centromeric localization of SGOL1 in mitosis.

PPP2R1A Antibody (clone 4E6) - References

Walter G.,et al.Proc. Natl. Acad. Sci. U.S.A. 86:8669-8672(1989).
Hemmings B.A.,et al.Biochemistry 29:3166-3173(1990).
Ebert L.,et al.Submitted (MAY-2004) to the EMBL/GenBank/DDBJ databases.
Lubec G.,et al.Submitted (MAR-2007) to UniProtKB.
Zolnierowicz S.,et al.Biochem. J. 317:187-194(1996).