10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Goat Anti-PPP2R5D Antibody
Peptide-affinity purified goat antibody
Catalog # AF1857a

Specification

Goat Anti-PPP2R5D Antibody - Product Information

Application	**WB, IF, FC, Pep-ELISA**
Primary Accession	Q14738
Other Accession	NP_851308, 5528
Reactivity	**Human**
Predicted	**Mouse, Rat, Pig, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**69992**

Goat Anti-PPP2R5D Antibody - Additional Information

Gene ID 5528

Other Names
Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit delta isoform, PP2A B subunit isoform B'-delta, PP2A B subunit isoform B56-delta, PP2A B subunit isoform PR61-delta, PP2A B subunit isoform R5-delta, PPP2R5D

Dilution
WB~~1:1000
IF~~1:50~200
FC~~1:10~50
Pep-ELISA~~N/A

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-PPP2R5D Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-PPP2R5D Antibody - Protein Information

Name PPP2R5D

Function
The B regulatory subunit might modulate substrate selectivity and catalytic activity, and might also direct the localization of the catalytic enzyme to a particular subcellular compartment.

Cellular Location
Cytoplasm. Nucleus. Note=Nuclear in interphase, nuclear during mitosis

Tissue Location
Isoform Delta-2 is widely expressed. Isoform Delta- 1 is highly expressed in brain

Goat Anti-PPP2R5D Antibody - Protocols

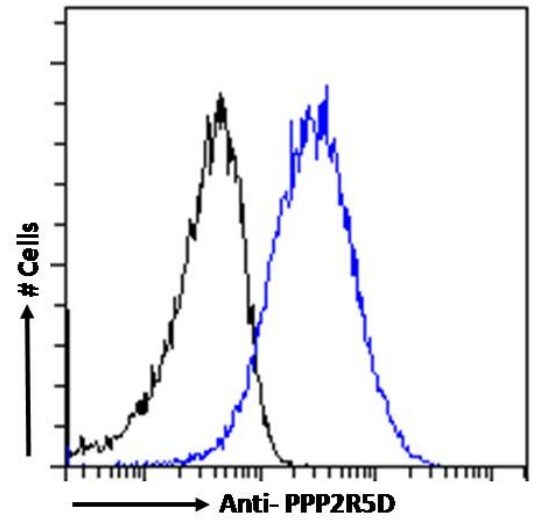
Provided below are standard protocols that you may find useful for product applications.

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

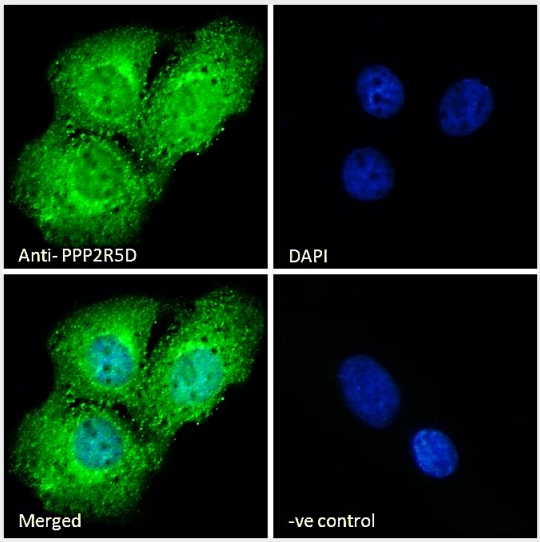
Goat Anti-PPP2R5D Antibody - Images

EB05232 (0.1µg/ml) staining of NIH3T3 cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



EB05232 Flow cytometric analysis of paraformaldehyde fixed A431 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) fol



EB05232 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic and nuclear staining. The nuclear stai

Goat Anti-PPP2R5D Antibody - Background

The product of this gene belongs to the phosphatase 2A regulatory subunit B family. Protein phosphatase 2A 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 B regulatory subunit might modulate substrate selectivity and catalytic activity. This gene encodes a delta isoform of the regulatory subunit B56 subfamily. Alternatively spliced transcript variants encoding different isoforms have been identified.

Goat Anti-PPP2R5D Antibody - References

Phosphorylation on the PPP2R5D B regulatory subunit modulates the biochemical properties of protein phosphatase 2A. Yu UY, et al. BMB Rep, 2010 Apr. PMID 20423611.
The Balpha and Bdelta regulatory subunits of PP2A are necessary for assembly of the CaMKIV.PP2A

signaling complex. Reece KM, et al. Biochem Biophys Res Commun, 2009 Sep 4. PMID 19538941.
A PP2A phosphatase high density interaction network identifies a novel striatin-interacting phosphatase and kinase complex linked to the cerebral cavernous malformation 3 (CCM3) protein. Goudreault M, et al. Mol Cell Proteomics, 2009 Jan. PMID 18782753.
PP4R4/KIAA1622 forms a novel stable cytosolic complex with phosphoprotein phosphatase 4. Chen GI, et al. J Biol Chem, 2008 Oct 24. PMID 18715871.
Control of mitotic exit by PP2A regulation of Cdc25C and Cdk1. Forester CM, et al. Proc Natl Acad Sci U S A, 2007 Dec 11. PMID 18056802.