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

Goat Anti-B56 beta isoform Antibody
Peptide-affinity purified goat antibody
Catalog # AF1133a

Specification

Goat Anti-B56 beta isoform Antibody - Product Information

Application	**WB, E**
Primary Accession	Q15173
Other Accession	NP_006235, 5526
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**57393**

Goat Anti-B56 beta isoform Antibody - Additional Information

Gene ID 5526

Other Names
Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit beta isoform, PP2A B subunit isoform B'-beta, PP2A B subunit isoform B56-beta, PP2A B subunit isoform PR61-beta, PP2A B subunit isoform R5-beta, PPP2R5B

Dilution
WB~~1:1000
E~~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-B56 beta isoform Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-B56 beta isoform Antibody - Protein Information

Name PPP2R5B

Function
As the regulatory component of the serine/threonine-protein phosphatase 2A (PP2A) holoenzyme,

modulates substrate specificity, subcellular localization, and responsiveness to phosphorylation. The phosphorylated form mediates the interaction between PP2A and AKT1, leading to AKT1 dephosphorylation.

Cellular Location
Cytoplasm.

Tissue Location
Highest expression in brain.

Goat Anti-B56 beta isoform 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-B56 beta isoform Antibody - Images

AF1133a (2 µg/ml) staining of Human Cerebellum lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-B56 beta isoform 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 beta isoform of the regulatory subunit B56 subfamily.

Goat Anti-B56 beta isoform Antibody - References

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.
B56beta, a regulatory subunit of protein phosphatase 2A, interacts with CALEB/NGC and inhibits CALEB/NGC-mediated dendritic branching. Brandt N, et al. FASEB J, 2008 Jul. PMID 18385213.
Shugoshin collaborates with protein phosphatase 2A to protect cohesin. Kitajima TS, et al. Nature, 2006 May 4. PMID 16541025.
Protein phosphatase 2A protects centromeric sister chromatid cohesion during meiosis I. Riedel CG, et al. Nature, 2006 May 4. PMID 16541024.
B56-containing PP2A dephosphorylate ERK and their activity is controlled by the early gene IEX-1 and ERK. Letourneux C, et al. EMBO J, 2006 Feb 22. PMID 16456541.