

Goat Anti-PPP2R5A Antibody
Peptide-affinity purified goat antibody
Catalog # AF1856a

Specification

Goat Anti-PPP2R5A Antibody - Product Information

Application	WB, IHC, E
Primary Accession	Q15172
Other Accession	NP_006234 , 5525
Reactivity	Human
Predicted	Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	56194

Goat Anti-PPP2R5A Antibody - Additional Information

Gene ID 5525

Other Names

Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit alpha isoform, PP2A B subunit isoform B'-alpha, PP2A B subunit isoform B56-alpha, PP2A B subunit isoform PR61-alpha, PR61alpha, PP2A B subunit isoform R5-alpha, PPP2R5A

Dilution

WB~~1:1000
IHC~~1:100~500
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-PPP2R5A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-PPP2R5A Antibody - Protein Information

Name PPP2R5A

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. Chromosome, centromere. Note=From mitotic prophase to metaphase, localizes at the inner centromere between a pair of sister kinetochores. Decreased expression at the onset of anaphase

Tissue Location

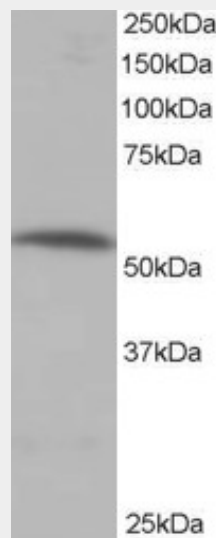
Widely expressed with the highest expression in heart and skeletal muscle

Goat Anti-PPP2R5A Antibody - Protocols

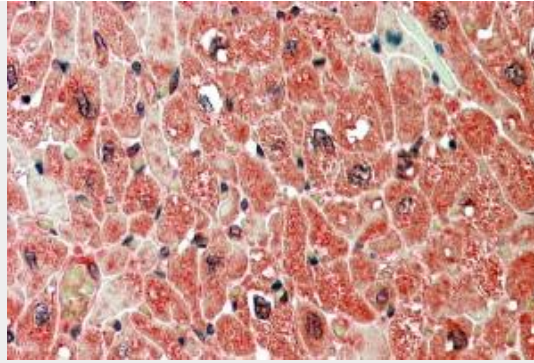
Provided below are standard protocols that you may find useful for product applications.

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

Goat Anti-PPP2R5A Antibody - Images



AF1856a staining (0.5 $\mu\text{g/ml}$) of human muscle lysate (RIPA buffer, 35 μg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.



AF1856a (5 µg/ml) staining of paraffin embedded Human Heart. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Goat Anti-PPP2R5A 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 an alpha isoform of the regulatory subunit B56 subfamily.

Goat Anti-PPP2R5A Antibody - References

Nuclear export and centrosome targeting of the protein phosphatase 2A subunit B56alpha: role of B56alpha in nuclear export of the catalytic subunit. Flegg CP, et al. *J Biol Chem*, 2010 Jun 11. PMID 20378546.

Negative regulation of CHK2 activity by protein phosphatase 2A is modulated by DNA damage. Freeman AK, et al. *Cell Cycle*, 2010 Feb 15. PMID 20160490.

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.

Lysine-independent turnover of cyclin G1 can be stabilized by B'alpha subunits of protein phosphatase 2A. Li H, et al. *Mol Cell Biol*, 2009 Feb. PMID 18981217.

PKR regulates B56(alpha)-mediated BCL2 phosphatase activity in acute lymphoblastic leukemia-derived REH cells. Ruvolo VR, et al. *J Biol Chem*, 2008 Dec 19. PMID 18957415.