

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

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**Goat Anti-PPP2R5A Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">Q15172</a>
Other Accession	<a href="#">NP_006234</a> , <a href="#">5525</a>
Reactivity	Human
Predicted	Rat, Pig, Dog, Cow
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

**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 also might 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

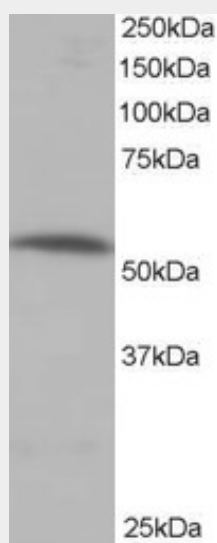
**Tissue Location**

Widely expressed with the highest expression in heart and skeletal muscle

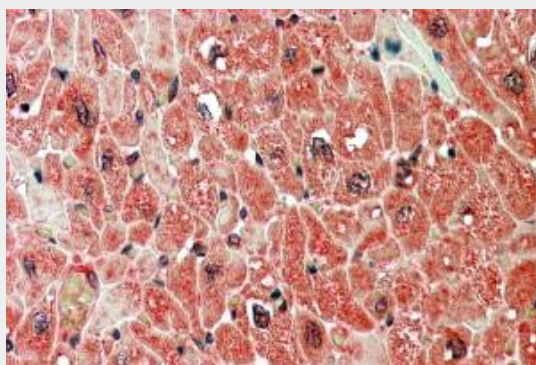
**Goat Anti-PPP2R5A Antibody - Protocols**

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  $\mu$ g/ml) of human muscle lysate (RIPA buffer, 35  $\mu$ g 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.