

**Goat Anti-PITPN / PITP alpha Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF1834a

## Specification

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### Goat Anti-PITPN / PITP alpha Antibody - Product Information

Application	WB
Primary Accession	<a href="#">Q00169</a>
Other Accession	<a href="#">NP_006215</a> , <a href="#">5306</a> , <a href="#">18738 (mouse)</a> , <a href="#">29525 (rat)</a>
Reactivity	Human
Predicted	Mouse, Rat, Dog, Cow
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	31806

### Goat Anti-PITPN / PITP alpha Antibody - Additional Information

Gene ID 5306

#### Other Names

Phosphatidylinositol transfer protein alpha isoform, PI-TP-alpha, PtdIns transfer protein alpha, PtdInsTP alpha, PITPNA, PITPN

#### 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-PITPN / PITP alpha Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### Goat Anti-PITPN / PITP alpha Antibody - Protein Information

Name PITPNA

Synonyms PITPN

#### Function

Catalyzes the transfer of phosphatidylinositol (PI) and phosphatidylcholine (PC) between membranes (PubMed: [10531358](http://www.uniprot.org/citations/10531358), PubMed: [14962392](http://www.uniprot.org/citations/14962392))

target="\_blank">14962392</a>, PubMed:<a href="http://www.uniprot.org/citations/15522822" target="\_blank">15522822</a>, PubMed:<a href="http://www.uniprot.org/citations/18636990" target="\_blank">18636990</a>, PubMed:<a href="http://www.uniprot.org/citations/22822086" target="\_blank">22822086</a>). Shows a preference for PI and PC containing shorter saturated or monosaturated acyl chains at the sn-1 and sn-2 positions (PubMed:<a href="http://www.uniprot.org/citations/15522822" target="\_blank">15522822</a>, PubMed:<a href="http://www.uniprot.org/citations/22822086" target="\_blank">22822086</a>). Preference order for PC is C16:1 > C16:0 > C18:1 > C18:0 > C20:4 and for PI is C16:1 > C16:0 > C18:1 > C18:0 > C20:4 > C20:3 (PubMed:<a href="http://www.uniprot.org/citations/22822086" target="\_blank">22822086</a>).

#### Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:P53810}. Nucleus {ECO:0000250|UniProtKB:P53810}

#### Goat Anti-PITPN / PITP alpha Antibody - Protocols

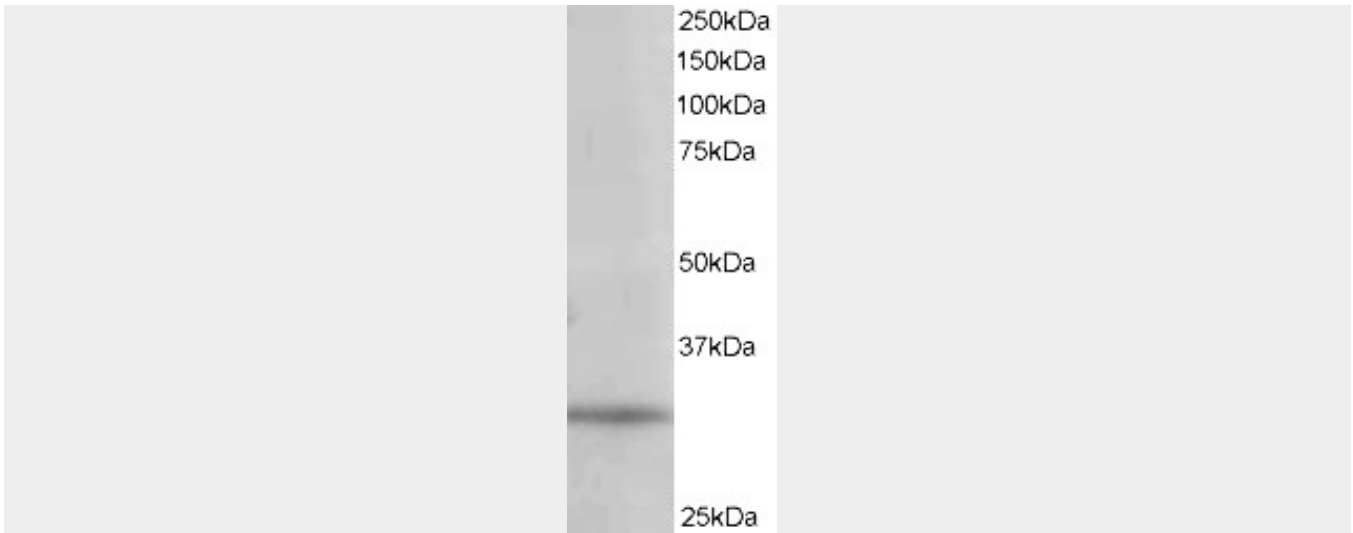
Provided below are standard protocols that you may find useful for product applications.

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

#### Goat Anti-PITPN / PITP alpha Antibody - Images



AF1834a staining (1 µg/ml) of 293 lysate (RIPA buffer, 35 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.



EB06319 staining (1 $\mu$ g/ml) of 293 lysate (RIPA buffer, 35 $\mu$ g total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

#### **Goat Anti-PITPN / PITP alpha Antibody - Background**

This gene encodes a member of a family of lipid-binding proteins that transfer molecules of phosphatidylinositol or phosphatidylcholine between membrane surfaces. The protein is implicated in phospholipase C signaling and in the production of phosphatidylinositol 3,4,5-trisphosphate (PIP<sub>3</sub>) by phosphoinositide-3-kinase.

#### **Goat Anti-PITPN / PITP alpha Antibody - References**

Proteome analysis of the thalamus and cerebrospinal fluid reveals glycolysis dysfunction and potential biomarkers candidates for schizophrenia. Martins-de-Souza D, et al. *J Psychiatr Res*, 2010 May 14. PMID 20471030.  
Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. *Mol Cell Proteomics*, 2008 Mar. PMID 18029348.  
Violating the splicing rules: TG dinucleotides function as alternative 3' splice sites in U2-dependent introns. Szafranski K, et al. *Genome Biol*, 2007. PMID 17672918.  
Large-scale mapping of human protein-protein interactions by mass spectrometry. Ewing RM, et al. *Mol Syst Biol*, 2007. PMID 17353931.  
Phosphatidylinositol transfer protein-alpha in netrin-1-induced PLC signalling and neurite outgrowth. Xie Y, et al. *Nat Cell Biol*, 2005 Nov. PMID 16244667.