

Goat Anti-PITPNM / PITPNM1 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1835a**Specification**

Goat Anti-PITPNM / PITPNM1 Antibody - Product Information

Application	WB, ICC, E
Primary Accession	O00562
Other Accession	NP_001124320 , 9600 , 18739 (mouse)
Reactivity	Mouse
Predicted	Human, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	134848

Goat Anti-PITPNM / PITPNM1 Antibody - Additional Information**Gene ID** 9600**Other Names**

Membrane-associated phosphatidylinositol transfer protein 1, Drosophila retinal degeneration B homolog, Phosphatidylinositol transfer protein, membrane-associated 1, PITPnm 1, Pyk2 N-terminal domain-interacting receptor 2, NIR-2, PITPNM1, DRES9, NIR2, PITPNM

Dilution

WB~~1:1000

ICC~~N/A

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-PITPNM / PITPNM1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-PITPNM / PITPNM1 Antibody - Protein Information**Name** PITPNM1

Synonyms DRES9, NIR2, PITPNM**Function**

Catalyzes the transfer of phosphatidylinositol (PI) between membranes (PubMed:10531358, PubMed:22822086). Binds PI, phosphatidylcholine (PC) and phosphatidic acid (PA) with the binding affinity order of PI > PA > PC (PubMed:22822086). Regulates RHOA activity, and plays a role in cytoskeleton remodeling (PubMed:11909959). Necessary for normal completion of cytokinesis (PubMed:15125835). Plays a role in maintaining normal diacylglycerol levels in the Golgi apparatus (PubMed:15723057). Necessary for maintaining the normal structure of the endoplasmic reticulum and the Golgi apparatus (PubMed:15545272). Required for protein export from the endoplasmic reticulum and the Golgi (PubMed:15723057). Binds calcium ions (PubMed:10022914).

Cellular Location

Cytoplasm. Golgi apparatus, Golgi stack membrane; Peripheral membrane protein. Endoplasmic reticulum membrane; Peripheral membrane protein. Lipid droplet. Cleavage furrow. Midbody Note=Peripheral membrane protein associated with Golgi stacks in interphase cells. A minor proportion is associated with the endoplasmic reticulum. Associated with lipid droplets (PubMed:12225667) Dissociates from the Golgi early on in mitosis and localizes to the cleavage furrow and midbody during cytokinesis (PubMed:15125835)

Tissue Location

Ubiquitous..

Goat Anti-PITPNM / PITPNM1 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-PITPNM / PITPNM1 Antibody - Images**Goat Anti-PITPNM / PITPNM1 Antibody - Background**

PITPNM1 belongs to a family of membrane-associated phosphatidylinositol transfer domain-containing proteins that share homology with the Drosophila retinal degeneration B (rdgB) protein (Ocaka et al., 2005 [PubMed 15627748]).

Goat Anti-PITPNM / PITPNM1 Antibody - References

Substrate specificity of RdgB protein, a deoxyribonucleoside triphosphate pyrophosphohydrolase.

Burgis NE, et al. J Biol Chem, 2007 Feb 9. PMID 17090528.

Global, in vivo, and site-specific phosphorylation dynamics in signaling networks. Olsen JV, et al. Cell, 2006 Nov 3. PMID 17081983.

Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560.

Maintenance of the diacylglycerol level in the Golgi apparatus by the Nir2 protein is critical for Golgi secretory function. Litvak V, et al. Nat Cell Biol, 2005 Mar. PMID 15723057.

Chromosomal localization, genomic organization and evolution of the genes encoding human phosphatidylinositol transfer protein membrane-associated (PITPNM) 1, 2 and 3. Ocaka L, et al. Cytogenet Genome Res, 2005. PMID 15627748.