

PITPNM1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP17243a**Specification**

PITPNM1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [O00562](#)**PITPNM1 Antibody (N-term) Blocking Peptide - 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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PITPNM1 Antibody (N-term) Blocking Peptide - Protein Information

Name PITPNM1

Synonyms DRES9, NIR2, PITPNM

Function

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

href="http://www.uniprot.org/citations/15723057" target="_blank">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..

PITPNM1 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PITPNM1 Antibody (N-term) Blocking Peptide - Images**PITPNM1 Antibody (N-term) Blocking Peptide - 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]).

PITPNM1 Antibody (N-term) Blocking Peptide - References

Burgis, N.E., et al. J. Biol. Chem. 282(6):3531-3538(2007) Olsen, J.V., et al. Cell 127(3):635-648(2006) Litvak, V., et al. Nat. Cell Biol. 7(3):225-234(2005) Amarilio, R., et al. J. Biol. Chem. 280(7):5934-5944(2005) Ocaka, L., et al. Cytogenet. Genome Res. 108(4):293-302(2005)