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PITPNM1 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI14462

Specification

PITPNM1 antibody - N-terminal region - Product Information

Application	**WB**
Primary Accession	O35954
Other Accession	NM_001130848, NP_001124320
Reactivity	**Human, Mouse, Rat, Pig, Horse, Bovine, Guinea Pig, Dog**
Predicted	**Human, Mouse, Pig, Chicken, Horse, Bovine, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**135kDa KDa**

PITPNM1 antibody - N-terminal region - Additional Information

Gene ID 18739

Alias Symbol	**DRES9, FLJ44997, NIR2, PITPNM, RDGB, RDGB1, RDGBA, RDGBA1, Rd9**

Other Names
Membrane-associated phosphatidylinositol transfer protein 1, Drosophila retinal degeneration B homolog 1, RdgB1, Mpt-1, Phosphatidylinositol transfer protein, membrane-associated 1, PITPnm 1, Pyk2 N-terminal domain-interacting receptor 2, NIR-2, Pitpnm1, Dres9, Mpt1, Nir2, Pitpnm

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-PITPNM1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
PITPNM1 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

PITPNM1 antibody - N-terminal region - Protein Information

Name Pitpnm1

Synonyms Dres9, Mpt1, Nir2, Pitpnm

Function
Catalyzes the transfer of phosphatidylinositol (PI) between membranes (By similarity). Binds PI (PubMed:10400687).

Also binds phosphatidylcholine (PC) and phosphatidic acid (PA) with the binding affinity order of PI > PA > PC (By similarity). Regulates RHOA activity, and plays a role in cytoskeleton remodeling (By similarity). Necessary for normal completion of cytokinesis (By similarity). Plays a role in maintaining normal diacylglycerol levels in the Golgi apparatus (By similarity). Necessary for maintaining the normal structure of the endoplasmic reticulum and the Golgi apparatus (By similarity). Required for protein export from the endoplasmic reticulum and the Golgi (By similarity). Binds calcium ions (By similarity).

Cellular Location
Cytoplasm {ECO:0000250|UniProtKB:O00562}. Golgi apparatus, Golgi stack membrane {ECO:0000250|UniProtKB:O00562}; Peripheral membrane protein {ECO:0000250|UniProtKB:O00562}. Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:O00562}; Peripheral membrane protein {ECO:0000250|UniProtKB:O00562}. Lipid droplet {ECO:0000250|UniProtKB:O00562}. Cleavage furrow {ECO:0000250|UniProtKB:O00562}. Midbody {ECO:0000250|UniProtKB:O00562} Note=Peripheral membrane protein associated with Golgi stacks in interphase cells. A minor proportion is associated with the endoplasmic reticulum. Associated with lipid droplets. Dissociates from the Golgi early on in mitosis and localizes to the cleavage furrow and midbody during cytokinesis. {ECO:0000250|UniProtKB:O00562}

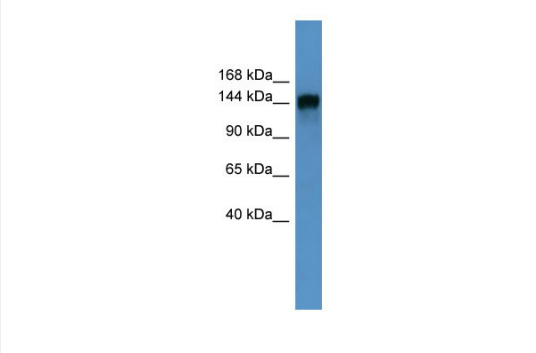
Tissue Location
Detected at high levels in brain, and at lower levels in lung, kidney, spleen and liver (at protein level) Ubiquitous. Highly expressed in embryonic retina and the central nervous system.

PITPNM1 antibody - N-terminal region - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PITPNM1 antibody - N-terminal region - Images



WB Suggested Anti-PITPNM1 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:62500
Positive Control: Human heart

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Aikawa Y.,et al.Biochem. Biophys. Res. Commun. 236:559-564(1997).
Rubboli F.,et al.Genes Funct. 1:205-213(1997).
Aikawa Y.,et al.J. Biol. Chem. 274:20569-20577(1999).