10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PITPNM1 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI14462

Product Information

Application	WB
Primary Accession	O35954
Other Accession	NM_001130848, NP_001124320
Reactivity	Human, Mouse, Rat, Pig, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Pig, Chicken, Dog, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	134940

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.

Protein Information

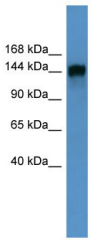
Name	Pitpnm1
Synonyms	Dres9, Mpt1, Nir2, Pitpnm
Function	Catalyzes the transfer of phosphatidylinositol (PI) between membranes (By similarity). Binds PI (PubMed:10400687). Also binds phosphatidylcholine (PC) and phosphatidic acid (PA) with the binding affinity order of PI > PA > PC (By similarity). Regulates 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	Cell membrane {ECO:0000250|UniProtKB:O00562}; Peripheral membrane protein {ECO:0000250|UniProtKB:O00562}; Cytoplasmic side {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}; Cytoplasmic side {ECO:0000250|UniProtKB:O00562}. Lipid droplet {ECO:0000250|UniProtKB:O00562}. Cleavage furrow {ECO:0000250|UniProtKB:O00562}. Midbody {ECO:0000250|UniProtKB:O00562} Note=Upon PIP2 hydrolysis, translocates to endoplasmic reticulum-plasma membrane contact sites. Peripheral membrane protein associated with Golgi stacks in interphase cells. 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.

References

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).

Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.