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PITPNM1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17243a

Product Information

Application	WB, E
Primary Accession	O00562
Other Accession	NP_004901.2, NP_001124320.1
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37045
Calculated MW	134848
Antigen Region	143-171

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
Target/Specificity	This PITPNM1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 143-171 amino acids from the N-terminal region of human PITPNM1.
Dilution	WB~~1:500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PITPNM1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PITPNM1 (HGNC:9003)

Synonyms	DRES9, NIR2, PITPNM
Function	Membrane-associated phosphatidylinositol (PI) transfer protein that shuttles PI between intracellular membranes and thereby maintains plasma-membrane phosphoinositide signaling competence (PubMed:10531358, PubMed:22822086, PubMed:25887399, PubMed:26028218, PubMed:41129229). Transfers phosphatidylinositol from the endoplasmic reticulum to the plasma membrane and mediates counter-transport of phosphatidic acid (PA) from the plasma membrane to the endoplasmic reticulum at endoplasmic reticulum-plasma membrane contact sites, this PI/PA exchange is required for sustained PLC-coupled receptor signaling and for replenishment of plasma membrane phosphoinositide following receptor-induced hydrolysis (PubMed:10531358, PubMed:22822086, PubMed:26028218). 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:11909959, PubMed:15545272, PubMed:15723057).
Cellular Location	Cell membrane; Peripheral membrane protein; Cytoplasmic side. Golgi apparatus, Golgi stack membrane; Peripheral membrane protein. Endoplasmic reticulum membrane; Peripheral membrane protein; Cytoplasmic side. Lipid droplet. Cleavage furrow. Midbody Note=Upon PIP2 hydrolysis, translocates to endoplasmic reticulum-plasma membrane contact sites (PubMed:25887399). Peripheral membrane protein associated with Golgi stacks in interphase cells. 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..

Background

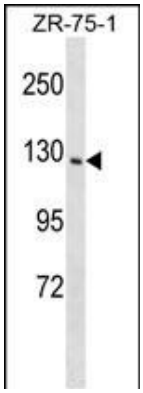
PITPNM1 belongs to a family of membrane-associated phosphatidylinositol transfer domain-containing proteins that share homology with the Drosophila retinal degeneration B (rdgB) protein (Ocaka et al., 2005 [PubMed 15627748]).

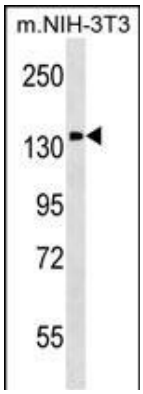
References

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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)

Images

PITPNM1 Antibody (N-term) (Cat. #AP17243a) western blot analysis in ZR-75-1 cell line lysates (35ug/lane).This demonstrates the PITPNM1 antibody detected the PITPNM1 protein (arrow).





PITPNM1 Antibody (N-term) (Cat. #AP17243a) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane).This demonstrates the PITPNM1 antibody detected the PITPNM1 protein (arrow).

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