Technical Data Sheet

Purified Mouse Anti-PITPnm

Product Information

612027 **Material Number:**

Phosphatidylinositol transfer protein; Nir2; MrdgBa Alternate Name:

 $150 \, \mu g$ Size: $250~\mu\text{g/ml}$ Concentration: 8/PITPNM Clone: Mouse PITPnm Immunogen: Mouse IgG1 Isotype: QC Testing: Rat Reactivity:

Tested in Development: Mouse

Target MW: 170 kDa

Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium

azide.

Description

PITPs (phosphatidylinositol transfer protein) are abundant cytosolic or transmembrane proteins that are required for phospholipase C (PLC) signaling and vesicular trafficking. All of the mammalian PITPs are homologous to Drosophila retinal degeneration B (rdgB) proteins, which are PITPs that are involved in retinal and olfactory neurosensory signaling, and mutations in these proteins lead to retinal degeneration. There are at least 5 mammalian PITPs, three cytosoloic PITPs, PITPα, PITPβ, and MrdgBβ, and two transmembrane PITPs: PITPnm (Nir2/MrdgBα) and Nir3. PITPα and β participate in PLC signaling, mediated by the ability of PITP to deliver PI to the signaling complex containing PI4-Kinase, PIP-5-Kinase, and the activated receptor. PITPnm contains an N-terminal PITP domain adjacent to a Ca2+-binding domain (CBD), and a C-terminal PYK2 binding domain. PITPnm mRNA is widely expressed with the highest expression in brain, and PITPnm protein is found in the ER and Golgi. Thus, PITPnm may be important for phosphoinositide synthesis in the Golgi, and may interact with PYK2 during activation of PI-4 signaling pathways.



Western blot analysis of PITPnm on a rat cerebrum lysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the mouse anti-PITPnm antibody.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20° C.

Application Notes

Application

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	Western blot	Routinely Tested		
	Immunofluorescence	Not Recommended		

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Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
611463	Rat Cerebrum Lysate	500 μg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)

Product Notices

- 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- 2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
- Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before
 discarding to avoid accumulation of potentially explosive deposits in plumbing.
- 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

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