Technical Data Sheet

Purified Mouse Anti-MUPP1

Product Information

Material Number:	**611558**
Size:	50 µg
Concentration:	250 µg/ml
Clone:	43/MUPP1
Immunogen:	Rat MUPP1 aa. 65-247
Reactivity:	QC Testing: Rat Tested in Development: Mouse
Target MW:	219 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

The postsynaptic density protein PSD-95 interacts with the cytoplasmic tail of ion channel subunits via a protein-protein motif called the PDZ domain. PSD-95 belongs to a family of PDZ domain-containing proteins that includes SAP97/Dlg, PSD-93/chapsyn-110, and SAP102. These proteins are characterized by three PDZ domains in the N-terminal half and an SH3 and guanylate kinase-like domain in the C-terminal region. They may be involved in the localization and clustering of ion channels and receptors at synaptic sites. Other PDZ domain-containing proteins such as glutamate receptor interacting protein (GRIP), Homer, and **mu**lti-**P**DZ-domain **p**rotein (MUPP1) do not contain guanylate kinase-like domains, but have also been implicated in receptor localization. MUPP1 contains thirteen PDZ domains and is expressed in human heart, brain, placenta, liver, skeletal muscle, kidney, and pancreas. In addition, smaller variants of MUPP1 are expressed in heart, liver, kidney, and brain. The C-terminal region of the 5-HT2c receptor interacts with MUPP1, suggesting that MUPP1 may have important protein-protein interactions during G-protein coupled receptor signaling.

Western blot analysis of MUPP1 on rat brain lysate.
Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of anti-MUPP1 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

Western blot	Routinely Tested
Immunofluorescence	Not Recommended

Recommended Assay Procedure:

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

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Suggested Companion Products

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
611463	Rat Cerebrum Lysate	500 µg	(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.
3. 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

Fallon L, Moreau F, Croft BG, Labib N, Gu WJ, Fon EA. Parkin and CASK/LIN-2 associate via a PDZ-mediated interaction and are co-localized in lipid rafts and postsynaptic densities in brain. *J Biol Chem.* 2002; 277(1):486-491.(Clone-specific: Western blot)

Ullmer C, Schmuck K, Figge A, Lubbert H. Cloning and characterization of MUPP1, a novel PDZ domain protein. *FEBS Lett.* 1998; 424(1-4):63-68.(Biology)