



[Go to Product page](#)

Datasheet for ABIN968588

anti-MPDZ antibody (AA 65-247)

1 Image

2 Publications

Overview

Quantity:	50 µg
Target:	MPDZ
Binding Specificity:	AA 65-247
Reactivity:	Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MPDZ antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Rat MUPP1 aa. 65-247
Clone:	43-MUPP1
Isotype:	IgG1
Cross-Reactivity:	Mouse (Murine)
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us 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.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

chromatography.

Target Details

Target: MPDZ

Alternative Name: MUPP1 ([MPDZ Products](#))

Background: 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 multi-PDZ-domain protein (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-HT_{2c} receptor interacts with MUPP1, suggesting that MUPP1 may have important protein-protein interactions during G-protein coupled receptor signaling.

Molecular Weight: 219 kDa

Pathways: [Synaptic Membrane](#), [Phototransduction](#)

Application Details

Comment: Related Products: ABIN967389, ABIN968545

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 250 µg/mL

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

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store undiluted at -20°C.

Publications

Product cited in: Fallon, Moreau, Croft, Labib, Gu, Fon: "Parkin and CASK/LIN-2 associate via a PDZ-mediated interaction and are co-localized in lipid rafts and postsynaptic densities in brain." in: **The Journal of biological chemistry**, Vol. 277, Issue 1, pp. 486-91, (2002) ([PubMed](#)).

Ullmer, Schmuck, Figge, Lübbert: "Cloning and characterization of MUPP1, a novel PDZ domain protein." in: **FEBS letters**, Vol. 424, Issue 1-2, pp. 63-8, (1998) ([PubMed](#)).

Images



Western Blotting

Image 1. 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.