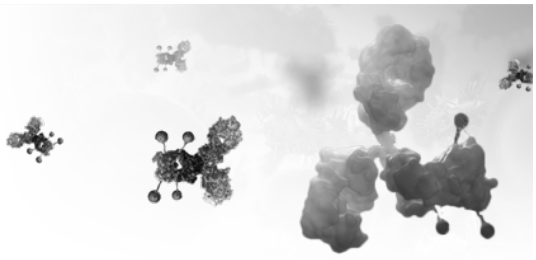

Mouse Anti-PRRT1 monoclonal antibody, clone M203/56 (CABT-RM149)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Detects Proline-rich transmembrane protein 1 (PRRT1). It targets an epitope within 66 amino acids from the N-terminal, extracellular domain.
Target	PRRT1
Immunogen	GST-tagged recombinant fragment corresponding to the first 66 amino acids from the N-terminal region of rat Proline-rich transmembrane protein 1 (PRRT1).
Isotype	IgG2a, κ
Source/Host	Mouse
Species Reactivity	Human, Mouse, Rat
Clone	M203/56
Purification	Protein G purified
Conjugate	unconjugated
Applications	WB
Epitope	N-terminus
Molecular Weight	~40 kDa observed; 31.39 kDa calculated. Uncharacterized bands may be observed in some lysate(s).
Format	Liquid
Size	100 µl

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Buffer	0.1 M Tris-Glycine (pH 7.4), 150 mM NaCl
Preservative	0.05% sodium azide
Storage	Stable for 1 year at 2-8°C from date of receipt.

BACKGROUND

Introduction	Proline-rich transmembrane protein 1 is encoded by the Prrt1 gene in rat. DSPD1 is a highly conserved, multi-pass membrane protein of the CD225/Dispanin family that is expressed in the brain and is detected in excitatory synapses. It contains two transmembrane helices, with both the N and C-termini oriented towards the outside of the cell. It plays an important role during synapse development in regulating AMPA receptor (AMPAR) and PSD-95 content at excitatory synapses. It is a component of the outer core of AMPAR complex. AMPAR complex consists of an inner core that is made of four pore-forming GluA/GRIA proteins and four major auxiliary subunits arranged in two-fold symmetry. The inner core of AMPAR complex is complemented by outer core constituents binding directly to the GluA/GRIA proteins at sites distinct from the interaction sites of the inner core constituents. The proteins of the inner and outer core serve as a platform for other, more peripherally associated AMPAR constituents.
Keywords	PRRT1; proline-rich transmembrane protein 1; NG5; DSPD1; C6orf31; IFITMD7; dispanin subfamily D member 1; interferon induced transmembrane protein domain containing 7

GENE INFORMATION

Entrez Gene ID	406167
UniProt ID	Q6MG82

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