

ARG44079 anti-PRRT1 antibody

Package: 50 μg Store at: -20°C

Summary

Product Description	Rabbit Polyclonal recognizes PRRT1
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	lgG
Target Name	PRRT1
Species	Human
Immunogen	Human SynDIG4/PRRT1 recombinant protein (Position: M1-N270).
Conjugation	Un-conjugated
Alternate Names	PRRT1; Proline Rich Transmembrane Protein 1; DSPD1; NG5; Proline-Rich Transmembrane Protein 1; Dispanin Subfamily D Member 1; IFITMD7; C6orf31; Interferon Induced Transmembrane Protein Domain Containing 7; Synapse Differentiation-Induced Protein 4; SynDIG4; Chromosome 6 Open Reading Frame 31

Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 μg/10^6 cells
	ICC/IF	5 μg/ml
	IHC-P	2 - 5 μg/ml
	WB	0.25 - 0.5 μg/ml
Application Note	The dilutions indicate recommen should be determined by the scie	ded starting dilutions and the optimal dilutions or concentrations entist.

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na2HPO4, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	PRRT1
Gene Full Name	Proline Rich Transmembrane Protein 1
Background	Enables identical protein binding activity. Predicted to be involved in several processes, including long- term synaptic depression; protein localization to cell surface; and regulation of AMPA receptor activity. Predicted to act upstream of or within several processes, including learning or memory; long-term synaptic potentiation; and synapse organization. Predicted to be located in postsynaptic density membrane and synaptic vesicle membrane. Predicted to be active in glutamatergic synapse and membrane. Predicted to be integral component of postsynaptic membrane.
Function	Required to maintain a pool of extrasynaptic AMPA-regulated glutamate receptors (AMPAR) which is necessary for synapse development and function. Regulates basal AMPAR function and synaptic transmission during development but is dispensable at mature hippocampal synapses. Plays a role in regulating basal phosphorylation levels of glutamate receptor GRIA1 and promotes GRIA1 and GRIA2 cell surface expression.
Calculated Mw	31 kDa
Cellular Localization	Cell membrane, Membrane, Synapse

Images



ARG44079 anti-PRRT1 antibody ICC/IF image

Immunofluorescence: U2OS stained with ARG44079 anti-PRRT1 antibody at 5 $\mu g/ml$ dilution.



ARG44079 anti-PRRT1 antibody FACS image

Flow Cytometry: SH-SY5Y stained with ARG44079 anti-PRRT1 antibody at 1 $\mu g/10^{4}$ cells dilution.



ARG44079 anti-PRRT1 antibody WB image

Western blot: Rat brain stained with ARG44079 anti-PRRT1 antibody at 0.5 $\mu\text{g}/\text{mL}$ dilution.



ARG44079 anti-PRRT1 antibody IHC-P image

Immunohistochemistry: Mouse brain stained with ARG44079 anti-PRRT1 antibody at 2 $\mu\text{g}/\text{ml}$ dilution.



ARG44079 anti-PRRT1 antibody WB image

Western blot: Mouse brain stained with ARG44079 anti-PRRT1 antibody at 0.5 $\mu g/mL$ dilution.