

Anti-PRR7 Purified Monoclonal Antibody

Catalog Number: M13414

About PRR7

PRR7/TRAP3 (proline-rich 7, transmembrane adaptor protein 3) is a 28 kDa transmembrane adaptor protein ubiquitously expressed at low level (most in brain). Its amino acid sequence is extremely conserved among mammalian and other species. PRR7/TRAP3 contains potential palmitoylation motif and is found in lipid rafts. It is a part of the complex postsynaptic density fraction in neurons and associates with PSD-95, NMDA receptor and probably other proteins. The intracellular domain of PRR7/TRAP3 contains several tyrosines, a proline-rich sequence, and a C-terminal PDZ-binding motif. So far nothing is known about function of this protein. It may be involved in regulation of some receptor signaling and in formation of neurologic and immunologic synapse.

Overview

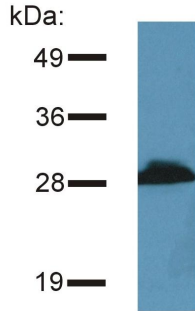
Product Name	Anti-PRR7 Purified Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PRR7 Purified Monoclonal Antibody (Catalog# M13414). Tested in WB, ICC application(s). This antibody reacts with Human, Mouse, Rat.
Application	ICC, WB
Clonality	Monoclonal TRAP3/10
Formulation	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	Q8TB68

Technical Details

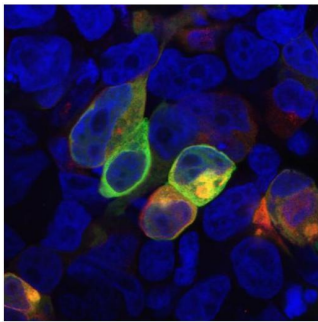
Immunogen	Recombinant C-terminal half of the intracellular domain of human PRR7/TRAP3 (amino acids 126-253). The mouse monoclonal antibody TRAP3/10 recognizes an epitope located in the C-terminal part of the intracellular domain of PRR7/TRAP3 (amino acids 126-253 of human PRR7 / TRAP3), a 28 kDa proline-rich membrane protein presumably associated with NMDA receptor complex.
Predicted Reactive Species	Primate
Cross Reactivity	As in case with other anti-CD170 antibodies, this antibody cross-reacts with Siglec-14, whose first two Ig domains are almost identical to those of CD170.
Isotype	Mouse IgG2a
Form	Liquid

Concentration	1 mg/ml
Purification	Purified by protein-A affinity chromatography.
Suggested Dilutions	Immunocytochemistry: 10 ug/ml; cell culture fixed with 4% paraformaldehyde, permeabilized with 0.1% Triton-X100. Western blotting: 1 ug/ml; positive control: murine brain lysate (red. Laemmli buffer).

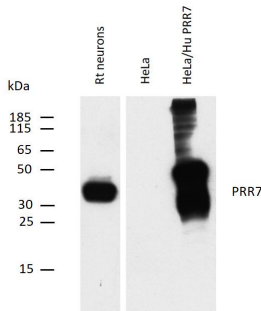
Anti-PRR7 Purified Monoclonal Antibody (M13414) Images



Western blotting detection of PRR7 / TRAP3 in murine brain lysate using the monoclonal antibody TRAP3/10.



Immunocytochemistry staining of HEK-293 cells cotransfected with PRR7 / TRAP3 (red) and GFP-PSD-95 (green). PRR7 / TRAP3 detected by monoclonal antibody TRAP3/10. DNA visualized by DAPI (blue).



Western blotting analysis of PRR7 using mouse monoclonal antibody TRAP3/10 on rat neuron lysate, and on HeLa transfectants overexpressing human PRR7, compared with non-transfected HeLa cells (negative control). Nitrocellulose membrane was probed with 1 µg/ml of mouse anti-PRR7 followed by a secondary antibody. PRR7 was detected around 35 kDa.

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