Datasheet for ABIN457438

anti-PRR7 antibody (C-Term, Intracellular)

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Overview

Quantity:	0.1 mg
Target:	PRR7
Binding Specificity:	C-Term, Intracellular
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PRR7 antibody is un-conjugated
Application:	Western Blotting (WB), Immunocytochemistry (ICC)

Product Details

Immunogen:	Recombinant C-terminal half of the intracellular domain of human PRR7/TRAP3 (amino acids 126-253)
Clone:	TRAP3-10
Isotype:	IgG2a
Specificity:	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.
Cross-Reactivity (Details):	Human, Mouse, Rat
Purification:	Purified by protein-A affinity chromatography.

Product Details

Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	PRR7
Alternative Name:	PRR7 / TRAP3 (PRR7 Products)
Background:	Proline rich 7, synaptic,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.,TRAP3
Gene ID:	80758
UniProt:	Q8TB68

Application Details

Application Notes:	Immunocytochemistry: Recommended dilution: 10 µg/mL, cell culture fixed with 4 % paraformaldehyde, permeabilized with 0.1 % Triton-X100. Western blotting: Recommended dilution: 1 µg/mL, positive control: murine brain lysate (red. Laemmli buffer).
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	**Do not freeze.**

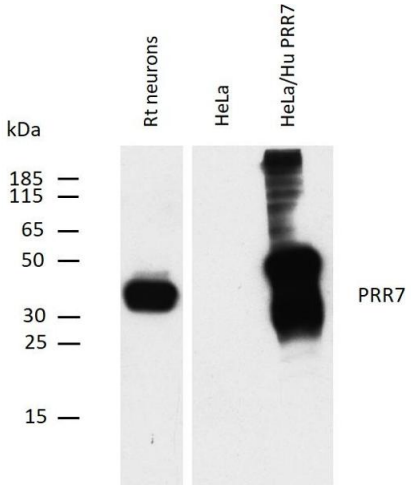
Handling

Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

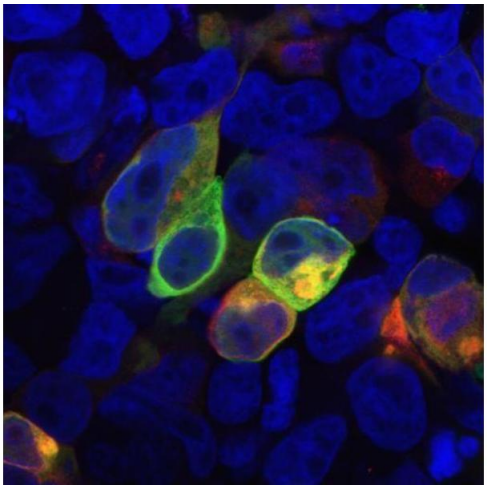
Product cited in:	Hrdinka, Dráber, Stepánek, Ormsby, Otáhal, Angelisová, Brdicka, Paces, Horejsí, Drbal: "PRR7 is a transmembrane adaptor protein expressed in activated T cells involved in regulation of T cell receptor signaling and apoptosis." in: **The Journal of biological chemistry**, Vol. 286, Issue 22, pp. 19617-29, (2011) (PubMed).

Images



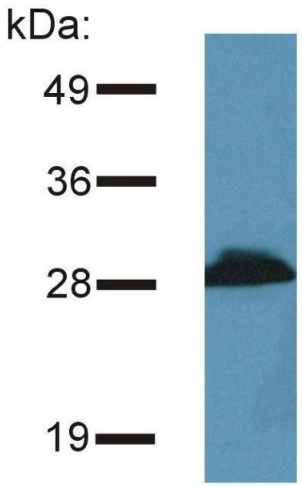
Western Blotting

Image 1. 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.



Immunofluorescence

Image 2. Immunofluorescence 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

Image 3. Detection of PRR7 / TRAP3 in murine brain lysate by Western blotting using the monoclonal antibody

Please check the product details page for more images. Overall 4 images are available for ABIN457438.