



## Rabbit Anti-PRR7 antibody

SL12104R

<b>Product Name:</b>	PRR7
<b>Chinese Name:</b>	突触富含脯氨酸膜蛋白7抗体
<b>Alias:</b>	Proline rich protein 7; Proline-rich protein 7; Prr7; PRR7_HUMAN; Synaptic proline rich membrane protein; Synaptic proline-rich membrane protein; transmembrane adaptor protein 3; TRAP3.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Cow,Sheep,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	31kDa
<b>Cellular localization:</b>	cytoplasmicThe cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human PRR7:1-80/274<Extracellular>
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	PRR7 (proline rich 7), also known as Synaptic proline-rich membrane protein, is a 269 amino acid protein expressed in postsynaptic density (PSD) of the forebrain, especially in hippocampus. The proline rich sequence for which the protein is named is characteristic of a region that is involved in protein-protein interactions, acting as a ligand for SH3, WW and EVH1 domains. As a single-pass type III membrane protein,

evidence shows that PRR7 forms a postsynaptic membrane complex with PSD-95 and NMDA $\alpha$ 1, suggesting its possible function in the modulation of neural activities. The expression pattern in brain also suggests that PRR7 is essential for synaptic formation or maturation, specifically in the cerebrum. Two isoforms of PRR7 exist as a result of an alternative splicing event.

**Subcellular Location:**

Membrane. Cell junction > synapse > postsynaptic cell membrane. Enriched in postsynaptic plasma membrane and postsynaptic densities (PSD). Accumulates in spines along with synapse maturation and colocalizes with DLG4 in a punctate pattern.

**SWISS:**

Q8TB68

**Gene ID:**

80758

**Database links:**

[Entrez Gene: 80758](#)Human

[Entrez Gene: 432763](#)Mouse

[Entrez Gene: 498704](#)Rat

[SwissProt: Q8TB68](#)Human

[SwissProt: Q3V0I2](#)Mouse

[SwissProt: P0C6T3](#)Rat

[Unigene: 534492](#)Human

[Unigene: 315457](#)Mouse

[Unigene: 162185](#)Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.