

**PRR7 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP16611b****Specification**

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**PRR7 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q8TB68](#)**PRR7 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 80758**Other Names**

Proline-rich protein 7, Synaptic proline-rich membrane protein, PRR7

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**PRR7 Antibody (C-term) Blocking Peptide - Protein Information****Name** PRR7**Function**

Acts as a synapse-to-nucleus messenger to promote NMDA receptor-mediated excitotoxicity in neurons in a JUN-dependent manner (By similarity). Inhibits ubiquitination-mediated degradation and promotes phosphorylation and transcriptional activity of transcription factor JUN (PubMed:<a href="http://www.uniprot.org/citations/27458189" target="\_blank">27458189</a>). Might play a redundant role in the regulation of T cell receptor signaling (PubMed:<a href="http://www.uniprot.org/citations/21460222" target="\_blank">21460222</a>). Might promote apoptosis in T cells (PubMed:<a href="http://www.uniprot.org/citations/21460222" target="\_blank">21460222</a>).

**Cellular Location**

Cell membrane; Single-pass type III membrane protein. Postsynaptic cell membrane {ECO:0000250|UniProtKB:P0C6T3}; Single-pass type III membrane protein. Postsynaptic density membrane {ECO:0000250|UniProtKB:P0C6T3}. Cytoplasm, perinuclear region. Synapse Cell projection, dendrite. Nucleus. Note=Enriched in postsynaptic plasma membrane and postsynaptic densities (PSD). Accumulates in spines along with synapse maturation and colocalizes with DLG4 in a punctate pattern. Translocates from synapses to nuclei following NMDA receptor activity (By similarity). {ECO:0000250|UniProtKB:P0C6T3}

**Tissue Location**

Strongly expressed in brain tissue including the hippocampus, and moderately expressed in esophagus, trachea, lung, ovary, cervix, prostate, testes, thyroid, thymus, lymph nodes and peripheral blood lymphocytes.

**PRR7 Antibody (C-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**PRR7 Antibody (C-term) Blocking Peptide - Images****PRR7 Antibody (C-term) Blocking Peptide - Background**

Found in a postsynaptic membrane complex with DLG4 and GRIN1. Interacts with DLG4. Interacts preferentially to the PDZ3 domain of DLG4 and to lesser degree to PDZ2 but not to the PDZ1.

**PRR7 Antibody (C-term) Blocking Peptide - References**

Kottgen, A., et al. Nat. Genet. 42(5):376-384(2010)Lamesch, P., et al. Genomics 89(3):307-315(2007)Murata, Y., et al. Biochem. Biophys. Res. Commun. 327(1):183-191(2005)