

**GLDN Antibody (Center) Blocking Peptide**

Synthetic peptide

Catalog # BP17551c

**Specification**

---

**GLDN Antibody (Center) Blocking Peptide - Product Information**

Primary Accession

[Q6ZMI3](#)**GLDN Antibody (Center) Blocking Peptide - Additional Information**

Gene ID 342035

**Other Names**

Gliomedin, GLDN, COLM

**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.

**GLDN Antibody (Center) Blocking Peptide - Protein Information**

Name GLDN

Synonyms COLM

**Function**

Ligand for NRCAM and NFASC/neurofascin that plays a role in the formation and maintenance of the nodes of Ranvier on myelinated axons. Mediates interaction between Schwann cell microvilli and axons via its interactions with NRCAM and NFASC. Nodes of Ranvier contain clustered sodium channels that are crucial for the saltatory propagation of action potentials along myelinated axons. During development, nodes of Ranvier are formed by the fusion of two heminodes. Required for normal clustering of sodium channels at heminodes; not required for the formation of mature nodes with normal sodium channel clusters. Required, together with NRCAM, for maintaining NFASC and sodium channel clusters at mature nodes of Ranvier.

**Cellular Location**

Cell membrane {ECO:0000250|UniProtKB:Q80WL1, ECO:0000269|PubMed:27616481}; Single-pass type II membrane protein {ECO:0000250|UniProtKB:Q80WL1}. Cell projection, axon {ECO:0000250|UniProtKB:Q80WL1}. Note=Detected at the nodes of Ranvier Detected at immature heminodes. {ECO:0000250|UniProtKB:Q80WL1}

**Tissue Location**

Specifically expressed in spinal cord, brain, placenta and sciatic nerve. More abundant in peripheral than central nervous system.

### **GLDN Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **GLDN Antibody (Center) Blocking Peptide - Images**

### **GLDN Antibody (Center) Blocking Peptide - Background**

GLDN plays a role in the formation of the nodes of Ranvier along myelinated axons. Probable NRCAM and NFASC/neurofascin ligand which may provide a glial positional clue required for the proper molecular assembly of the nodes of Ranvier (By similarity).

### **GLDN Antibody (Center) Blocking Peptide - References**

Eshed, Y., et al. Neuron 47(2):215-229(2005)Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)Graveel, C.R., et al. Oncogene 22(11):1730-1736(2003)