

GLDN Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17551c

Specification

GLDN Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q6ZMI3
Other Accession	NP_861454.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	271-299

GLDN Antibody (Center) - Additional Information

Gene ID 342035

Other Names
Gliomedin, GLDN, COLM

Target/Specificity

This GLDN antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 271-299 amino acids from the Central region of human GLDN.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

GLDN Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

GLDN Antibody (Center) - 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

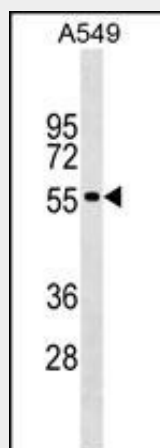
Specifically expressed in spinal cord, brain, placenta and sciatic nerve. More abundant in peripheral than central nervous system.

GLDN Antibody (Center) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GLDN Antibody (Center) - Images



GLDN Antibody (Center) (Cat. #AP17551c) western blot analysis in A549 cell line lysates (35ug/lane). This demonstrates the GLDN antibody detected the GLDN protein (arrow).

GLDN Antibody (Center) - 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) - 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)