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GLDN Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17551c

Product Information

Application	WB, E
Primary Accession	Q6ZMI3
Other Accession	NP_861454.2
Reactivity	Human
Predicted	Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36176
Calculated MW	58957
Antigen Region	271-299

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 E~~Use at an assay dependent concentration.
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.

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.

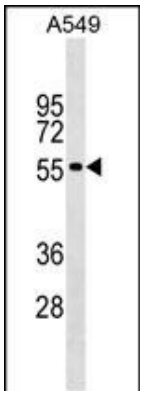
Background

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).

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)

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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.