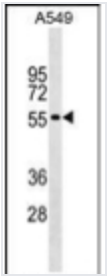
GLDN Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GLDN, Polyclonal Antibody
Full Product Name	GLDN, ID (GLDN, COLM, Gliomedin) (Biotin)
Product Gene Name	anti-GLDN antibody
Product Synonym Names	GLDN; COLM; Gliomedin
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human GLDN.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	45,822 Da
3D Structure	ModBase 3D Structure for Q6ZMI3
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 271-299 in the central region of human GLDN, UniProt Accession # Q6ZMI3; NP_861454.2.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-GLDN antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-GLDN antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-GLDN antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-GLDN antibody	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).
Product References and Citations for anti-GLDN antibody	1. Eshed, Y., et al. Neuron 47(2):215-229 (2005). 2. Clark, H.F., et al. Genome Res. 13(10):2265-2270 (2003). 3. Graveel, C.R., et al. Oncogene 22(11):1730-1736 (2003).
Other Notes	Small volumes of anti-GLDN antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GLDN purchase	MBS6302514 is an antibody targeting GLDN. Also known as GLDN, ID (GLDN, COLM, Gliomedin) (Biotin). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-GLDN antibody
Western Blot analysis in A549 cell line lysates (35ug/lane) using 0350756. This demonstrates 0350756 detected the GLDN protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GLDN. It may not necessarily be applicable to this product.

NCBI GI #	98986321
NCBI GeneID	342035
NCBI Accession #	NP_861454.2
UniProt Primary Accession #	Q6ZMI3
UniProt Secondary Accession #	Q6UXZ7; Q7Z359
UniProt Related Accession #	Q6ZMI3
GenBank Nucleotide #	NM_181789.3
NCBI Official Full Name	gliomedin isoform 1
NCBI Official Synonym Full Names	gliomedin
NCBI Official Symbol	GLDN
NCBI Official Synonym Symbols	CLOM; COLM; CRGL2; CRG-L2; LCCS11; UNC-112
UniProt Protein Name	Gliomedin
Protein Family	Gliomedin
UniProt Gene Name	GLDN
UniProt Synonym Gene Names	COLM
NCBI Protein Information	gliomedin
NCBI Summary for GLDN	This gene encodes a protein that contains olfactomedin-like and collagen-like domains. The encoded protein, which exists in both transmembrane and secreted forms, promotes formation of the nodes of Ranvier in the peripheral nervous system. Mutations in this gene cause a form of lethal congenital contracture syndrome in human patients. Autoantibodies to the encoded protein have been identified in sera form patients with multifocal motor neuropathy. [provided by RefSeq, May 2017]
UniProt Comments for GLDN	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.
Research Articles on GLDN	**1.** Our findings expand the genotypic and phenotypic spectrum of LCCS11 and demonstrate that the condition may not necessarily be lethal in the neonatal period.

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