GRAMD1B Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GRAMD1B, Polyclonal Antibody
Full Product Name	GRAMD1B Antibody
Product Gene Name	anti-GRAMD1B antibody
Product Synonym Names	GRAM domain containing 1B; GRAM domain-containing protein 1B; Gramd1b; GRM1B_HUMAN; KIAA1201
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Concentration	1mg/ml (lot specific)
Specificity	GRAMD1B Antibody detects endogenous levels of GRAMD1B.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	GRAMD1B peptide (MBS9633024) is used for blocking the activity of GRAMD1B antibody (MBS9630641)
Molecular Weight	49,786 Da
3D Structure	ModBase 3D Structure for Q3KR37
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human GRAMD1B.
Conjugation	Unconjugated
Similarity	GRAM domain binds phosphatidylserine in the PM and mediates protein recruitment to endoplasmic reticulum-plasma membrane contact sites (EPCS) in response to excess cholesterol in the PM. VASt (VAD1 Analog of StAR-related lipid transfer) domain, also known as ASTER (Greek for star) domain is a sterol-binding domain.
Function	Cholesterol transporter that mediates non-vesicular transport of cholesterol from the plasma membrane (PM) to the endoplasmic reticulum (ER) (By similarity). Contains unique domains for binding cholesterol and the PM, thereby serving as a molecular bridge for the transfer of cholesterol from the PM to the ER (By similarity). Plays a crucial role in cholesterol homeostasis in the adrenal gland and has the unique ability to localize to the PM based on the level of membrane cholesterol (By similarity). In lipid-poor conditions localizes to the ER membrane and in response to excess cholesterol in the PM is recruited to the endoplasmic reticulum-plasma membrane contact sites (EPCS) which is mediated by the GRAM domain (By similarity). At the EPCS, the sterol-binding VASt/ASTER domain binds to the cholesterol in the PM and facilitates its transfer from the PM to ER (By similarity).
Note	In lipid-poor conditions localizes to the ER membrane and in response to excess cholesterol in the PM is recruited to the endoplasmic reticulum-plasma membrane contact sites (EPCS).
Product Categories/Family for anti-GRAMD1B antibody	Endoplasmic reticulum membrane; Single-pass membrane protein; Cell membrane; Primary
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.

Applications Tested/Suitable for anti-GRAMD1B antibody	ELISA (EIA)(peptide)
Application Notes for anti-GRAMD1B antibody	ELISA(peptide): 1:20000-1:40000
Related Product Information for anti-GRAMD1B antibody	MBS9630641 is an antibody targeting GRAMD1B. Also known as GRAMD1B Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-GRAMD1B 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GRAMD1B. It may not necessarily be applicable to this product.

NCBI GI #	144227752
NCBI GeneID	57476
NCBI Accession #	NP_065767
UniProt Primary Accession #	Q3KR37
UniProt Secondary Accession #	Q6UW85; Q9ULL9
UniProt Related Accession #	Q3KR37
GenBank Nucleotide #	NM_020716
NCBI Official Full Name	GRAM domain-containing protein 1B isoform 2
NCBI Official Synonym Full Names	GRAM domain containing 1B
NCBI Official Symbol	GRAMD1B
UniProt Protein Name	GRAM domain-containing protein 1B
Protein Family	GRAM domain-containing protein
UniProt Gene Name	GRAMD1B
UniProt Synonym Gene Names	KIAA1201
UniProt Entry Name	GRM1B_HUMAN
NCBI Protein Information	GRAM domain-containing protein 1B
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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