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GRAMD1B Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP13342b

Specification

GRAMD1B Antibody (C-term) Blocking peptide - Product Information

Primary Accession	Q3KR37

GRAMD1B Antibody (C-term) Blocking peptide - Additional Information

Gene ID 57476

Other Names
GRAM domain-containing protein 1B, GRAMD1B, KIAA1201

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP13342b was selected from the C-term region of GRAMD1B. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

GRAMD1B Antibody (C-term) Blocking peptide - Protein Information

Name GRAMD1B

Synonyms KIAA1201

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).

Cellular Location
Endoplasmic reticulum membrane; Single-pass membrane protein. Cell membrane; Single-pass membrane protein. 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).

GRAMD1B Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

GRAMD1B Antibody (C-term) Blocking peptide - Images

GRAMD1B Antibody (C-term) Blocking peptide - Background

The specific function of this protein remains unknown.

GRAMD1B Antibody (C-term) Blocking peptide - References

Slager, S.L., et al. Cancer Epidemiol. Biomarkers Prev. 19(4):1098-1102(2010)Di Bernardo, M.C., et al. Nat. Genet. 40(10):1204-1210(2008)Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)Wistow, G., et al. Mol. Vis. 8, 196-204 (2002) :