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GORASP1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP18002c

Specification

GORASP1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q9BQQ3

GORASP1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 64689

Other Names
Golgi reassembly-stacking protein 1, Golgi peripheral membrane protein p65, Golgi phosphoprotein 5, GOLPH5, Golgi reassembly-stacking protein of 65 kDa, GRASP65, GORASP1, GOLPH5, GRASP65

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.

GORASP1 Antibody (Center) Blocking Peptide - Protein Information

Name GORASP1

Synonyms GOLPH5, GRASP65

Function
Key structural protein of the Golgi apparatus (PubMed:33301566). The membrane cisternae of the Golgi apparatus adhere to each other to form stacks, which are aligned side by side to form the Golgi ribbon (PubMed:33301566). Acting in concert with GORASP2/GRASP55, is required for the formation and maintenance of the Golgi ribbon, and may be dispensable for the formation of stacks (PubMed:33301566). However, other studies suggest that GORASP1 plays an important role in assembly and membrane stacking of the cisternae, and in the reassembly of Golgi stacks after breakdown during mitosis (By similarity). Caspase-mediated cleavage of GORASP1 is required for fragmentation of the Golgi during apoptosis (By similarity). Also mediates, via its interaction with GOLGA2/GM130, the docking of transport vesicles with the Golgi membranes (PubMed:16489344). Mediates ER

stress-induced unconventional (ER/Golgi-independent) trafficking of core-glycosylated CFTR to cell membrane (PubMed:21884936).

Cellular Location
Golgi apparatus, cis-Golgi network membrane; Peripheral membrane protein; Cytoplasmic side. Endoplasmic reticulum- Golgi intermediate compartment membrane

GORASP1 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

GORASP1 Antibody (Center) Blocking Peptide - Images

GORASP1 Antibody (Center) Blocking Peptide - Background

The Golgi complex plays a key role in the sorting andmodification of proteins exported from the endoplasmic reticulum.The protein encoded by this gene is a membrane protein involved inestablishing the stacked structure of the Golgi apparatus. It is acaspase-3 substrate, and cleavage of this encoded proteincontributes to Golgi fragmentation in apoptosis. This encodedprotein can form a complex with the Golgi matrix protein GOLGA2,and this complex binds to the vesicle docking protein p115. Severalalternatively spliced transcript variants of this gene have beenidentified, but their full-length natures have not been determined.

GORASP1 Antibody (Center) Blocking Peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Tang, D., et al. Traffic 11(6):827-842(2010)Xiang, Y., et al. J. Cell Biol. 188(2):237-251(2010)D'Angelo, G., et al. J. Biol. Chem. 284(50):34849-34860(2009)Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)