

### **GORASP2 Antibody (Center) Blocking Peptide** Synthetic peptide

Catalog # BP16192c

# Specification

# **GORASP2** Antibody (Center) Blocking Peptide - Product Information

Primary Accession

<u>Q9H8Y8</u>

# GORASP2 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 26003

**Other Names** Golgi reassembly-stacking protein 2, GRS2, Golgi phosphoprotein 6, GOLPH6, Golgi reassembly-stacking protein of 55 kDa, GRASP55, p59, GORASP2, GOLPH6

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.

# **GORASP2** Antibody (Center) Blocking Peptide - Protein Information

Name GORASP2

Synonyms GOLPH6

## Function

Key structural protein of the Golgi apparatus (PubMed:<a

href="http://www.uniprot.org/citations/33301566" target="\_blank">33301566</a>). 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:<a

href="http://www.uniprot.org/citations/33301566" target="\_blank">33301566</a>). Acting in concert with GORASP1/GRASP65, is required for the formation and maintenance of the Golgi ribbon, and may be dispensable for the formation of stacks (PubMed:<a

href="http://www.uniprot.org/citations/33301566" target="\_blank">33301566</a>). However, other studies suggest that GORASP2 plays a role in the assembly and membrane stacking of the Golgi cisternae, and in the process by which Golgi stacks reform after breakdown during mitosis and meiosis (PubMed:<a href="http://www.uniprot.org/citations/10487747"">http://www.uniprot.org/citations/10487747</a>"

target="\_blank">10487747</a>, PubMed:<a href="http://www.uniprot.org/citations/21515684" target="\_blank">21515684</a>, PubMed:<a href="http://www.uniprot.org/citations/22523075" target="\_blank">22523075</a>). May regulate the intracellular transport and presentation of a defined set of transmembrane proteins, such as transmembrane TGFA (PubMed:<a



href="http://www.uniprot.org/citations/11101516" target="\_blank">11101516</a>). Required for normal acrosome formation during spermiogenesis and normal male fertility, probably by promoting colocalization of JAM2 and JAM3 at contact sites between germ cells and Sertoli cells (By similarity). Mediates ER stress-induced unconventional (ER/Golgi-independent) trafficking of core-glycosylated CFTR to cell membrane (PubMed:<a

href="http://www.uniprot.org/citations/21884936" target="\_blank">21884936</a>, PubMed:<a href="http://www.uniprot.org/citations/27062250" target="\_blank">27062250</a>, PubMed:<a href="http://www.uniprot.org/citations/28067262" target="\_blank">28067262</a>).

#### **Cellular Location**

Golgi apparatus membrane; Lipid-anchor. Endoplasmic reticulum membrane. Golgi apparatus. Note=Detected in the intermediate Golgi, membrane-associated (By similarity). ER stress triggers its relocalization from Golgi to ER membrane (PubMed:27062250, PubMed:28067262). {ECO:0000250|UniProtKB:Q9R064, ECO:0000269|PubMed:27062250, ECO:0000269|PubMed:28067262}

## GORASP2 Antibody (Center) Blocking Peptide - Protocols

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

<u>Blocking Peptides</u>

## GORASP2 Antibody (Center) Blocking Peptide - Images

## GORASP2 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 involved in establishing thestacked structure of the Golgi apparatus.

## GORASP2 Antibody (Center) Blocking Peptide - References

Sebastiani, P., et al. Science (2010) In press :Roghi, C., et al. FEBS J. 277(15):3158-3175(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)Need, A.C., et al. Hum. Mol. Genet. 18(23):4650-4661(2009)