10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GORASP2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16192c

Product Information

Application	WB, E
Primary Accession	Q9H8Y8
Other Accession	Q9R064, Q99JX3, NP_056345.3
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB35587
Calculated MW	47145
Antigen Region	185-214

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
Target/Specificity	This GORASP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 185-214 amino acids from the Central region of human GORASP2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GORASP2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GORASP2
Synonyms	GOLPH6

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 GORASP1/GRASP65, 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 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:10487747, PubMed:21515684, PubMed:22523075). May regulate the intracellular transport and presentation of a defined set of transmembrane proteins, such as transmembrane TGFA (PubMed:11101516). 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:21884936, PubMed:27062250, PubMed:28067262).
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}

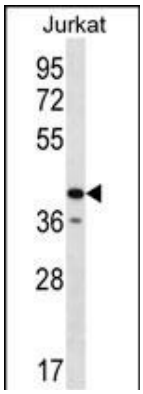
Background

The Golgi complex plays a key role in the sorting and modification of proteins exported from the endoplasmic reticulum. The protein encoded by this gene is involved in establishing the stacked structure of the Golgi apparatus.

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)

Images



GORASP2 Antibody (Center) (Cat. #AP16192c) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the GORASP2 antibody detected the GORASP2 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.