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GRASP65 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58755

Specification

GRASP65 Polyclonal Antibody - Product Information

Application	**WB, IHC-P, IHC-F, IF, E**
Primary Accession	Q9BQQ3
Reactivity	**Rat, Pig, Dog, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**46 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human GRASP65**
Epitope Specificity	**1-100/440**
Isotype	**IgG**
Purity affinity purified by Protein A	
Buffer	**0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.**
SUBCELLULAR LOCATION	**Golgi apparatus, cis-Golgi network membrane;**
SIMILARITY	**Belongs to the GORASP family. Contains 1 PDZ (DHR) domain.**
SUBUNIT	**Homodimer. Forms higher order oligomers under interphase but not mitotic conditions. Dimers of the protein on one membrane might be able to interact with dimers on another and so stack cisternae. Interacts with the C-terminus of GM130 under both mitotic and non-mitotic conditions. The interaction is critical for the correct targeting of both proteins to the cis-Golgi. The complex binds to the vesicle docking protein p115. Interacts with TMED2 and TMED3 (By similarity).**
Post-translational modifications	**Phosphorylated by CDC2/B1 and PLK kinases during mitosis. Phosphorylation cycle correlates with the cisternal stacking cycle. Phosphorylation of the homodimer prevents the association of dimmers into higher order oligomers, leading to cisternal unstacking.Target for caspase-3 cleavage during apoptosis. The cleavage contributes to Golgi fragmentation and occurs very early in the execution phase of apoptosis (By similarity).**
Important Note	**This product as supplied is intended for research use only, not for use in human,**

therapeutic or diagnostic applications.

Background Descriptions
Stacking factor involved in the postmitotic assembly of Golgi stacks from mitotic Golgi fragments. Key structural protein required for the maintenance of the Golgi apparatus integrity: its caspase-mediated cleavage is required for fragmentation of the Golgi during apoptosis. Also mediates, via its interaction with GM130, the docking of transport vesicles with the Golgi membranes.

GRASP65 Polyclonal Antibody - 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

Dilution
WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>E~~N/A

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

GRASP65 Polyclonal Antibody - 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:<a href="http://www.uniprot.org/citations/21884936"

target="_blank">21884936).

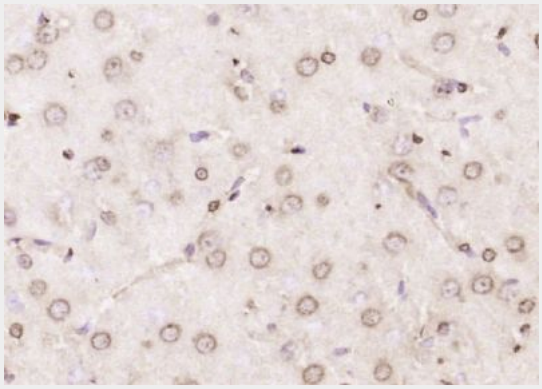
Cellular Location
Golgi apparatus, cis-Golgi network membrane; Peripheral membrane protein; Cytoplasmic side. Endoplasmic reticulum- Golgi intermediate compartment membrane

GRASP65 Polyclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GRASP65 Polyclonal Antibody - Images



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GRASP65) Polyclonal Antibody, Unconjugated (bs-7802R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.