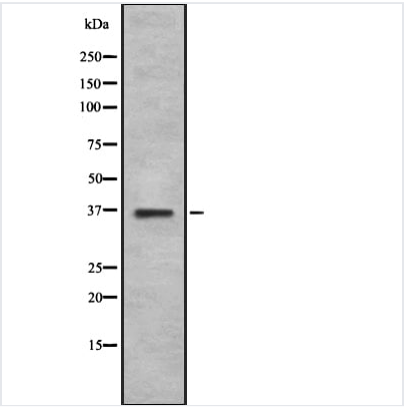
GS28 Antibody – Rabbit Polyclonal

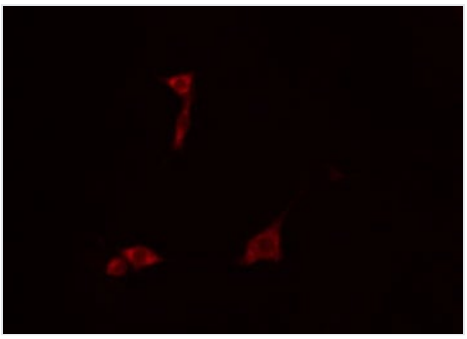
PRODUCT OVERVIEW

Product Name	GS28, Polyclonal Antibody
Full Product Name	GS28 Antibody
Product Gene Name	anti-GS28 antibody
Product Synonym Gene Name	GOSR1
Product Synonym Names	28 kDa cis Golgi SNARE p28; 28 kDa Golgi SNARE protein; cis-golgi SNARE; golgi integral membrane protein 2; Golgi SNAP receptor complex member 1; Golgi SNARE 28 kDa; GOLIM2; GOS28; GOS28/P28; GOSR1; GS25; Gs28; P28
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	GS28 antibody detects endogenous levels of total GS28
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	GS28 peptide (MBS9619580) is used for blocking the activity of GS28 antibody (MBS9602125)
Molecular Weight	Observed: 37 kDa Predicted: 29 kDa
3D Structure	ModBase 3D Structure for O95249
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human GS28
Subcellular Location	Cell Membrane, Endoplasmic Reticulum and Golgi Apparatus
Tissue Specificity	Expression induced by hydrogen peroxide in neuronal cells. By monocrotaline in pulmonary epithelial cells (at protein level). Negatively regulated by OSBPL7 via GABARAPL2 leading to degradation on proteasomes (at protein level).
Predicted Cross Reactivity	**Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus**
Similarity	Pig (100%), Zebrafish (92%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-GS28 antibody	Western Blot (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), ELISA (EIA)

Application Notes for anti-GS28 antibody	WB: 1:1000 IF/ICC: 1:100-1:500
Related Product Information for anti-GS28 antibody	Function: Involved in transport from the ER to the Golgi apparatus as well as in intra-Golgi transport. It belongs to a super-family of proteins called t-SNAREs or soluble NSF (N-ethylmaleimide-sensitive factor) attachment protein receptor. May play a protective role against hydrogen peroxide induced cytotoxicity under glutathione depleted conditions in neuronal cells by regulating the intracellular ROS levels via inhibition of p38 MAPK (MAPK11, MAPK12, MAPK13 and MAPK14). Participates in docking and fusion stage of ER to cis-Golgi transport. Plays an important physiological role in VLDL-transport vesicle-Golgi fusion and thus in VLDL delivery to the hepatic cis-Golgi. Subunit Structure: Component of several multiprotein Golgi SNARE complexes. Identified in a SNARE complex with BET1, STX5 and YKT6, in a SNARE complex with BET1L, STX5 and YKT6, in a SNARE complex with STX5, GOSR2, SEC22B and BET1, and in complex with STX5 and COG3. Interacts with GABARAPL2 (By similarity). Similarity: Belongs to the GOSR1 family.
Other Notes	Small volumes of anti-GS28 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GS28 purchase	MBS9602125 is an antibody targeting GS28. Also known as GS28 Antibody. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-GS28 antibody
Western blot analysis GS28 using K562 whole cell lysates



Immunofluorescene (IF) of anti-GS28 antibody
MBS9602125 staining COLO205 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GS28. It may not necessarily be applicable to this product.

NCBI GI #	55770856
NCBI GeneID	9527
NCBI Accession #	NP_001007025.1
UniProt Primary Accession #	O95249
UniProt Secondary Accession #	O75392; J3KST5
UniProt Related Accession #	O95249
GenBank Nucleotide #	NM_001007024.1
NCBI Official Full Name	Golgi SNAP receptor complex member 1 isoform 3
NCBI Official Synonym Full Names	golgi SNAP receptor complex member 1
NCBI Official Symbol	GOSR1
NCBI Official Synonym Symbols	P28; GS28; GOS28; GOLIM2; GOS-28; GOS28/P28
UniProt Protein Name	Golgi SNAP receptor complex member 1

UniProt Synonym Protein Names	28 kDa Golgi SNARE protein; 28 kDa cis-Golgi SNARE p28; GOS-28
UniProt Gene Name	GOSR1
UniProt Synonym Gene Names	GS28; GOS-28
NCBI Protein Information	Golgi SNAP receptor complex member 1
NCBI Summary for GS28	This gene encodes a trafficking membrane protein which transports proteins among the endoplasmic reticulum and the Golgi and between Golgi compartments. This protein is considered an essential component of the Golgi SNAP receptor (SNARE) complex. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for GS28	Involved in transport from the ER to the Golgi apparatus as well as in intra-Golgi transport. It belongs to a super-family of proteins called t-SNAREs or soluble NSF (N-ethylmaleimide-sensitive factor) attachment protein receptor. May play a protective role against hydrogen peroxide induced cytotoxicity under glutathione depleted conditions in neuronal cells by regulating the intracellular ROS levels via inhibition of p38 MAPK (MAPK11, MAPK12, MAPK13 and MAPK14). Participates in docking and fusion stage of ER to cis-Golgi transport. Plays an important physiological role in VLDL-transport vesicle-Golgi fusion and thus in VLDL delivery to the hepatic cis-Golgi.
Research Articles on GS28	**1.** these results indicate that GS28 nuclear predominant expression could serve as a prognostic marker for colorectal cancer (CRC) and may help in identifying aggressive forms of CRC
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