abcam

ab232339

Anti-GOSR1/GS28 antibody [EP1768Y] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EP1768Y
Purification technique	Affinity purification Protein A

Reactivity data

WB

Expected

Species	Mouse, Rat, Human
Dilution info	Use at an assay dependent concentration.
Notes	-

ICC/IF

Tested

Species	Mouse
Dilution info	-
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Rat

Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information GOSR1

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.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab232339 is the carrier-free version of ab53288.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	GOSR1 also known as GS28 is a Golgi SNAP receptor complex member and has a mass of approximately 28 kDa. It functions mechanically in the membrane trafficking process facilitating the fusion of transport vesicles with the Golgi apparatus. GOSR1 localizes mainly to the Golgi apparatus and is expressed in numerous human tissues including the liver brain and pancreas. It participates in the assembly of the SNARE complex which is important for vesicle docking and fusion.
Biological function summary	GOSR1 is involved in the intracellular transport system ensuring the proper sorting and distribution of proteins within cells. It is a component of the soluble N-ethylmaleimide-sensitive factor attachment protein receptor (SNARE) complex working with other SNARE proteins to mediate vesicle fusion events. This interaction plays a significant role in maintaining the functionality and organization of the Golgi network impacting protein processing and trafficking.
Pathways	GOSR1 plays a role in intracellular transport and protein processing pathways influencing how proteins are modified and directed within the cell. It interacts with other proteins such as syntaxin 5 and Bet1 to facilitate the fusion of vesicles with the Golgi. This action integrates GOSR1 into the Golgi-to-endoplasmic reticulum retrograde transport pathway as well as anterograde transport which are essential for the maintenance of cellular protein homeostasis.
Associated diseases and disorders	Alterations in GOSR1 expression or function may relate to neurodegenerative conditions such as Parkinson's disease and metabolic disorders like diabetes. GOSR1's role in vesicle trafficking means its dysfunction can disrupt cellular homeostasis potentially leading to these diseases. It interacts with proteins such as alpha-synuclein in neurodegeneration and may influence insulin granule trafficking in metabolic disorders. Understanding GOSR1's involvement opens potential avenues for therapeutic approaches targeting these conditions.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

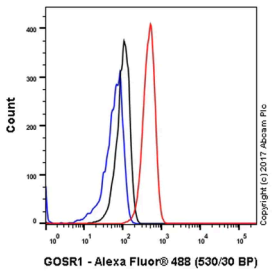
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

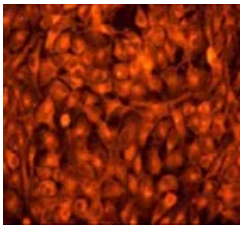
5 product images



Flow Cytometry (Intracellular) - Anti-GOSR1/GS28 antibody [EP1768Y] - BSA and Azide free (ab232339)

GOSR1/GS28 Flow Cytometry (Intracellular) staining using rabbit Anti-GOSR1/GS28 antibody

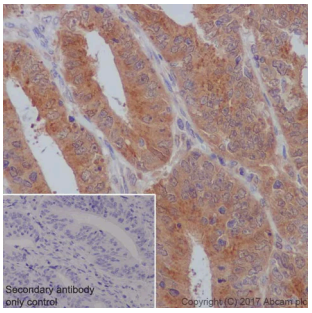
Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling GOSR1/GS28 with purified ab53288 at 1/120 dilution (10µg/ml) (red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab53288).



Immunocytochemistry/ Immunofluorescence - Anti-GOSR1/GS28 antibody [EP1768Y] - BSA and Azide free (ab232339)

GOSR1/GS28 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-GOSR1/GS28 antibody

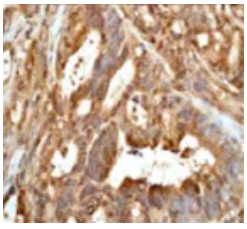
HeLa cells stained with unpurified ab53288 at 1/50 - 1/100 dilution
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab53288).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GOSR1/GS28 antibody [EP1768Y] - BSA and Azide free (ab232339)

GOSR1/GS28 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-GOSR1/GS28 antibody

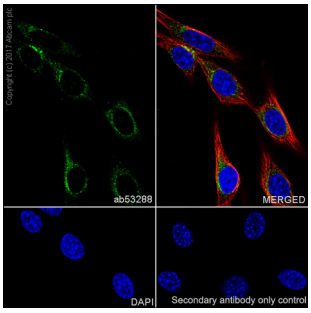
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human colon carcinoma tissue sections labeling GOSR1/GS28 with Purified ab53288 at 1:100 dilution (12.3 µg/ml). Heat mediated antigen retrieval was performed using ab93684 (Tris/EDTA buffer, pH 9.0). Tissue was counterstained with Hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use) secondary antibody was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab53288).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GOSR1/GS28 antibody [EP1768Y] - BSA and Azide free (ab232339)

GOSR1/GS28 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-GOSR1/GS28 antibody

Human stomach carcinoma staining with unpurified ab53288 at 1/100 - 1/250 dilution
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab53288).



Immunocytochemistry/ Immunofluorescence - Anti-GOSR1/GS28 antibody [EP1768Y] - BSA and Azide free (ab232339)

GOSR1/GS28 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-GOSR1/GS28 antibody

Immunocytochemistry/ Immunofluorescence analysis of NIH/3T3 (Mouse embryonic fibroblast) cells labeling GOSR1/GS28 with Purified ab53288 at 1:150 dilution. Cells were fixed in 100% Methanol. Cells were counterstained with None. ab150077 Goat anti rabbit IgG(Alexa Fluor® 488) was used as the secondary antibody at 1:1000 dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab53288).

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