abcam

Product datasheet

Anti-GM130 antibody [EP892Y] - cis-Golgi Marker ab52649

Recombinant RabMAb

38 Abreviews 250 References 13 Images

Overview

Product name	Anti-GM130 antibody [EP892Y] - cis-Golgi Marker
Description	Rabbit monoclonal [EP892Y] to GM130 - cis-Golgi Marker
Host species	Rabbit
Specificity	Mouse and rat cell lines pc12, 3t3, raw 264.7 were tested positive in WB. However, brain, kidney, spleen and heart were negative from the two species.
Tested applications	**Suitable for:** Flow Cyt (Intra), ICC/IF, IHC-P, WB, IP
Species reactivity	**Reacts with:** Dog, Human, African green monkey **Predicted to work with:** Cow, Monkey **Does not react with:** Mouse, Rat
Immunogen	Synthetic peptide within Human GM130 aa 1-100 (N terminal). The exact sequence is proprietary. Database link: **Q08379**
Positive control	WB: HeLa, MCF7, MDCK(NBL-2), MDBK(BL-1) and COS-1 cell lysates; MDCK 2 cell lysate; COS-7 cell lysate. IHC-P: Human cervix carcinoma and liver tissues. ICC/IF: HeLa and ARPE-19 cells. Flow Cyt (intra): HeLa cells. IP: HeLa whole cell lysate.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20

	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP892Y
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab52649 in the following tested applications.

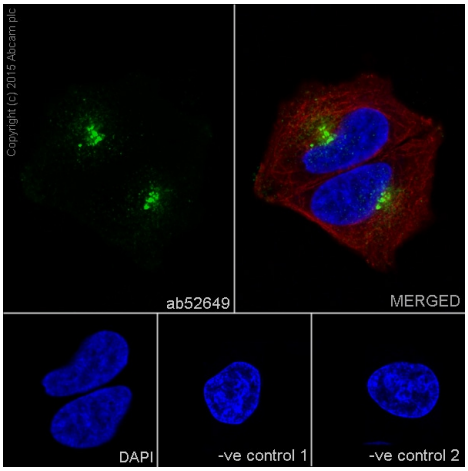
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/20.
ICC/IF	★★★★★ **(20)**	1/50 - 1/250. PFA fixation should be most suitable.
IHC-P		1/100 - 1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**. Overnight incubation is recommended.
WB	★★★★★ **(11)**	1/1000 - 1/10000. Detects a band of approximately 140 kDa (predicted molecular weight: 112 kDa).
IP		1/20 - 1/50.

Target

Function	Golgi auto-antigen; probably involved in maintaining cis-Golgi structure.
Sequence similarities	Belongs to the GOLGA2 family.
Domain	Extended rod-like protein with coiled-coil domains.
Cellular localization	Golgi apparatus > Golgi stack membrane.

Images

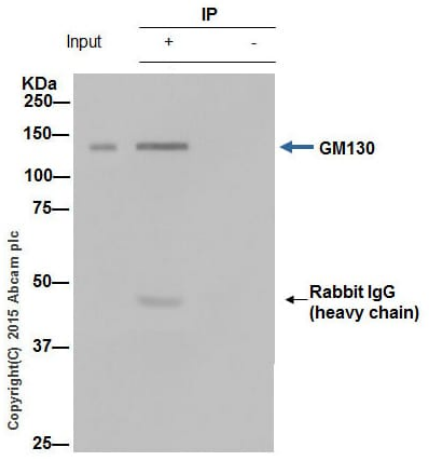


Immunocytochemistry/ Immunofluorescence - Anti-GM130 antibody [EP892Y] - cis-Golgi Marker (ab52649)

Immunocytochemistry/Immunofluorescence analysis of HeLa cells labelling GM130 with purified ab52649 at 1/50. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain. **ab7291**, a mouse anti-tubulin (1/1000) and **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500) were also used.

Control 1: primary antibody (1/50) and secondary antibody, **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500).

Control 2: **ab7291** (1/1000) and secondary antibody, **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500).



Immunoprecipitation - Anti-GM130 antibody [EP892Y] - cis-Golgi Marker (ab52649)

ab52649 (purified) at 1/20 immunoprecipitating GM130 in HeLa whole cell lysate.

For western blotting, **ab131366** VeriBlot for IP (HRP) was used for detection (1/1500).

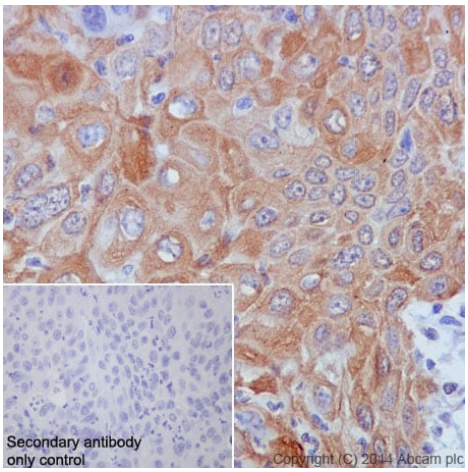
Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.

All lanes :

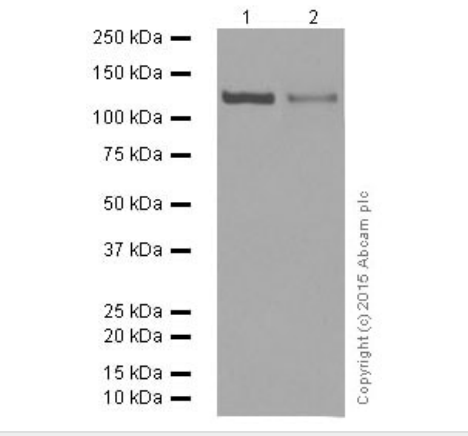
Lane 1 : HeLa whole cell lysate at 10 µg
Lane 2 : ab52649 + HeLa whole cell lysate at 10 µg
Lane 3 : Rabbit monoclonal IgG (**ab172730**) instead of ab52649 in HeLa whole cell lysate

Observed band size: 130 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GM130 antibody [EP892Y] - cis-Golgi Marker (ab52649)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human cervix carcinoma tissue labelling GM130 with purified ab52649 at 1/100. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. **ab97051**, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Western blot - Anti-GM130 antibody [EP892Y] - cis-Golgi Marker (ab52649)

All lanes : Anti-GM130 antibody [EP892Y] - cis-Golgi Marker (ab52649) at 1/1000 dilution (purified)

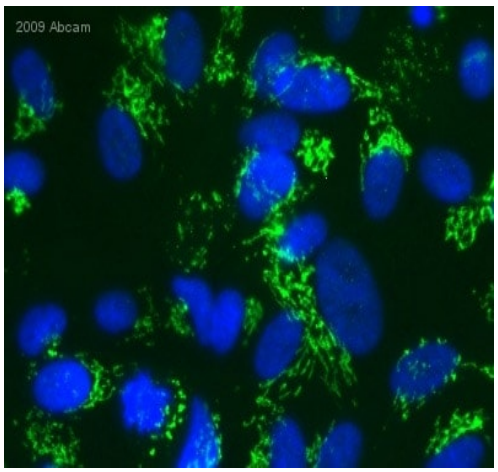
Lane 1 : HeLa cell lysate
Lane 2 : MCF7 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Peroxidase-conjugated goat anti-rabbit IgG, (H+L) at 1/1000 dilution

Predicted band size: 112 kDa
Observed band size: 130 kDa

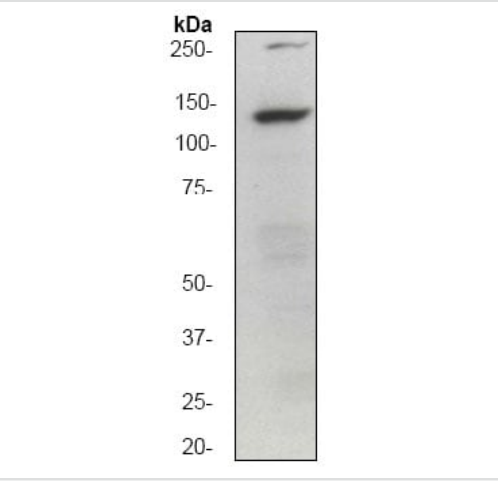
Blocking and dilution buffer: 5% NFDM/TBST.



Immunocytochemistry/ Immunofluorescence - Anti-GM130 antibody [EP892Y] - cis-Golgi Marker (ab52649)

This image is courtesy of an Abreview submitted by Dr Vladimir Milenkovic

Unpurified ab52649 staining GM130 in human ARPE-19 cells by ICC/IF (immunocytochemistry/immunofluorescence). Cells were formaldehyde fixed, permeabilized by 0.5% TX-100 and blocked with 5% serum for 20 minutes at 25°C. The sample was incubated with the primary antibody (1/500 in 1% goat serum, 0.1%TX100, 1 x PBS) for 16 hours at 4°C. An Alexa Fluor® 488-conjugated Goat anti-rabbit polyclonal (1/500) was used as the secondary.



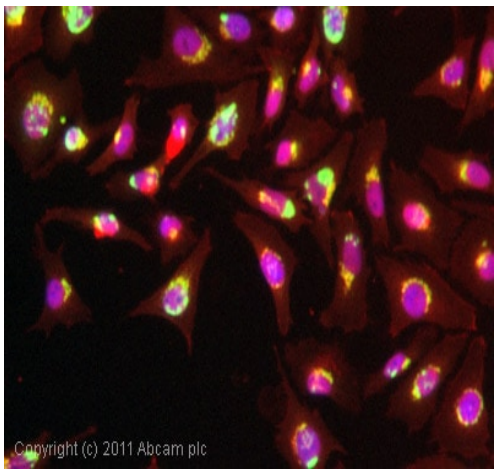
Western blot - Anti-GM130 antibody [EP892Y] - cis-Golgi Marker (ab52649)

Anti-GM130 antibody [EP892Y] - cis-Golgi Marker (ab52649) at 1/200000 dilution (unpurified) + HeLa cell lysate at 10 µg

Secondary

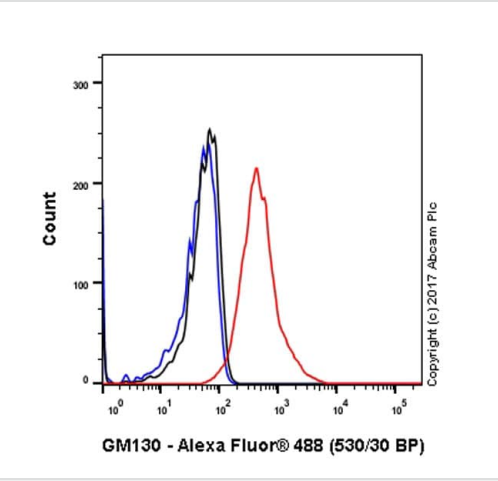
HRP-conjugated goat anti-rabbit IgG at 1/2000 dilution

Predicted band size: 112 kDa



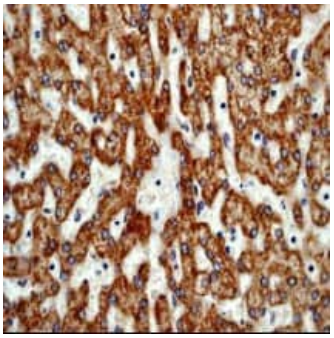
Immunocytochemistry/ Immunofluorescence - Anti-GM130 antibody [EP892Y] - cis-Golgi Marker (ab52649)

ICC/IF image of unpurified **ab52946** stained HeLa cells. The cells were 4% PFA fixed (10 min) and then incubated in 1% BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (unpurified **ab52946**, 1µg/ml) overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti-rabbit IgG - H&L, pre-adsorbed (**ab96899**) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Flow Cytometry (Intracellular) - Anti-GM130 antibody [EP892Y] - cis-Golgi Marker (ab52649)

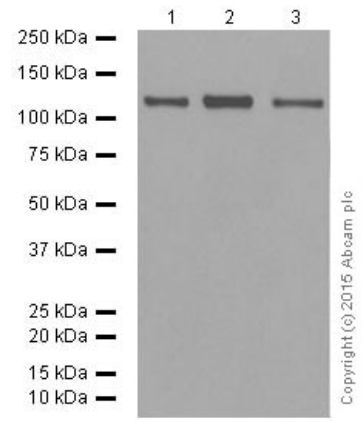
Intracellular Flow Cytometry analysis of HeLa (human cervix adenocarcinoma) cells labeling GM130 (red) with ab52649 at a 1/20 dilution. Cells were fixed with 4% paraformaldehyde and permeabilized with 90% methanol. A goat anti-rabbit IgG (Alexa Fluorr® 488) (**ab150077**) was used as the secondary antibody at a 1/2000 dilution. Black - Rabbit monoclonal IgG (**ab172730**). Blue (unlabeled control) - Cells without incubation with the primary and secondary antibodies.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GM130 antibody [EP892Y] - cis-Golgi Marker (ab52649)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human liver tissue labelling GM130 with unpurified ab52649 at a dilution of 1/500.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Western blot - Anti-GM130 antibody [EP892Y] - cis-Golgi Marker (ab52649)

All lanes : Anti-GM130 antibody [EP892Y] - cis-Golgi Marker (ab52649) at 1/5000 dilution (purified)

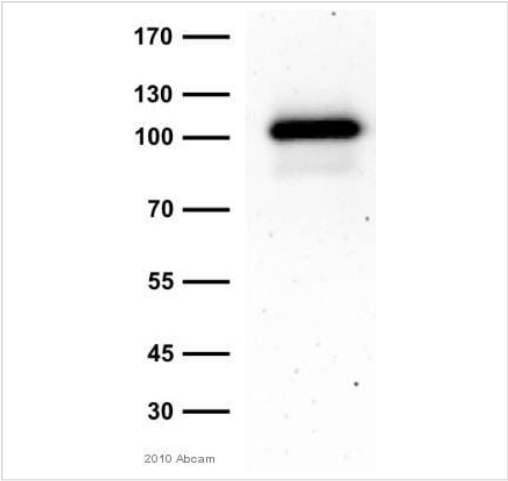
Lane 1 : MDCK(NBL-2) cell lysate
Lane 2 : MDCK(BL-1) cell lysate
Lane 3 : COS-1 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Peroxidase-conjugated goat anti-rabbit IgG, (H+L) at 1/1000 dilution

Predicted band size: 112 kDa
Observed band size: 130 kDa

Blocking and dilution buffer: 5% NFDM/TBST.



Western blot - Anti-GM130 antibody [EP892Y] - cis-Golgi Marker (ab52649)

MDCK 2 cells at 25 µg

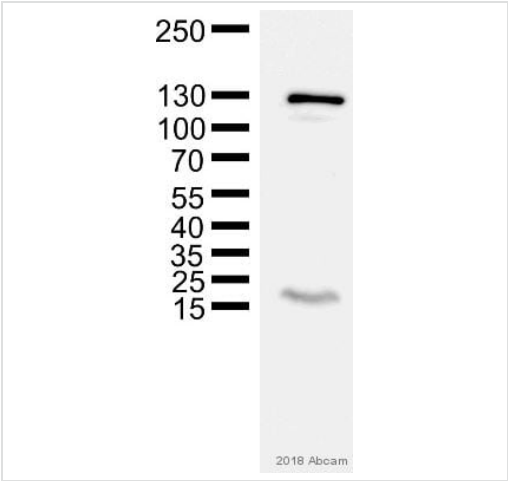
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 112 kDa

Blocking and dilution buffer: 1XPBS-Tween, 5% milk

Exposure: 10 minutes.



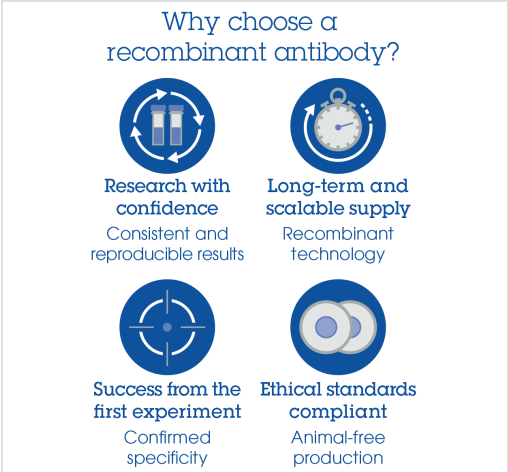
Western blot - Anti-GM130 antibody [EP892Y] - cis-Golgi Marker (ab52649)

COS-7 Cell Line from African green monkey kidney whole cell lysate

Predicted band size: 112 kDa

Blocking and dilution buffer: PBS, 0.05% Tween

Exposure: 5 minutes.



Anti-GM130 antibody [EP892Y] - cis-Golgi Marker (ab52649)

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