abcam

Product datasheet

Alexa Fluor® 647 Anti-GM130 antibody [EP892Y] - cis-Golgi Marker ab195303

Recombinant RabMAb

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Overview

Product name	Alexa Fluor® 647 Anti-GM130 antibody [EP892Y] - cis-Golgi Marker
Description	Alexa Fluor® 647 Rabbit monoclonal [EP892Y] to GM130 - cis-Golgi Marker
Host species	Rabbit
Conjugation	Alexa Fluor® 647. Ex: 652nm, Em: 668nm
Tested applications	**Suitable for:** ICC/IF, Flow Cyt (Intra)
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	ICC/IF - HeLa, Flow Cyt (intra) - HeLa
General notes	Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. Alexa Fluor® is a registered trademark of Molecular Probes, Inc, a Thermo Fisher Scientific Company. The Alexa Fluor® dye included in this product is provided under an intellectual property license from Life Technologies Corporation. As this product contains the Alexa Fluor® dye, the purchase of this product conveys to the buyer the non-transferable right to use the purchased product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). As this product contains the Alexa Fluor® dye the sale of this product is expressly conditioned on the buyer not using the product or its components, or any materials made using the product or its components, in any activity to generate revenue, which may include, but is not limited to use of the product or its components: in manufacturing; (ii) to provide a service, information, or data in return for payment (iii) for therapeutic, diagnostic or prophylactic purposes; or (iv) for resale, regardless of whether they are sold for use in research. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, 5781 Van Allen Way, Carlsbad, CA 92008 USA or **outlicensing@thermofisher.com**.

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.

	Avoid freeze / thaw cycle. Store In the Dark.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 30% Glycerol (glycerin, glycerine), 1% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP892Y
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab195303 in the following tested applications.

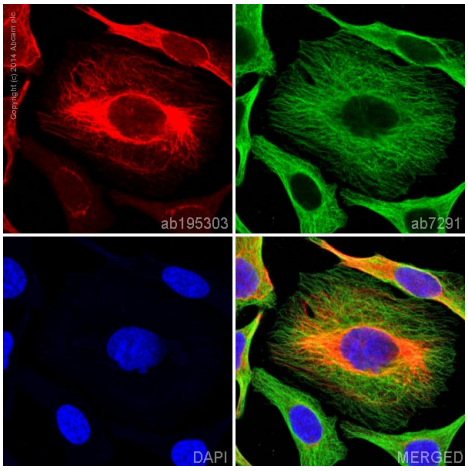
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★☆ **(2)**	1/100 - 1/2500.
Flow Cyt (Intra)		Use 0.2µl for 10^6 cells. **ab199093** - Rabbit monoclonal IgG (Alexa Fluor® 647), is suitable for use as an isotype control with this antibody.

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

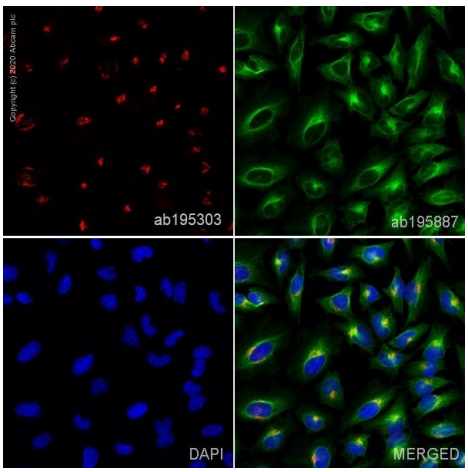


Immunocytochemistry/ Immunofluorescence - Alexa Fluor® 647 Anti-GM130 antibody [EP892Y] - cis-Golgi Marker (ab195303)

Ab195303 staining GM130 in HeLa cells. The cells were fixed with 100% methanol (5min), permeabilized in 0.1% Triton X-100 for 5 minutes and then blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated with ab195303 at 5µg/ml (shown in red) and **ab7291** (Mouse monoclonal [DM1A] to alpha Tubulin) at 1/100 dilution overnight at +4°C, followed by a further incubation at room temperature for 1h with an AlexaFluor®488 Goat anti-Mouse secondary (**ab150117**) at 2µg/ml (shown in green). Nuclear DNA was labelled in blue with DAPI.

This product gave a positive signal in 4% formaldehyde (10min) fixed HeLa cells under the same testing conditions.

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

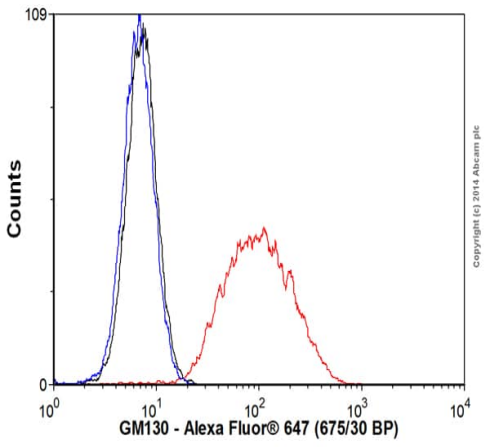


Immunocytochemistry/ Immunofluorescence - Alexa Fluor® 647 Anti-GM130 antibody [EP892Y] - cis-Golgi Marker (ab195303)

Immunofluorescence analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labelling GM130 with ab195303. The cells were fixed with 4% formaldehyde (10 min), permeabilized with 0.1% Tween for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with ab195303 at 1/2500 dilution (shown in red) and **ab195887**, Mouse monoclonal to alpha Tubulin (Alexa Fluor® 488), at 1/250 dilution (shown in green). Nuclear DNA was labelled with DAPI (shown in blue).

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

This product also gave a positive signal under the same testing conditions in HeLa cells fixed with 100% methanol (5 min).

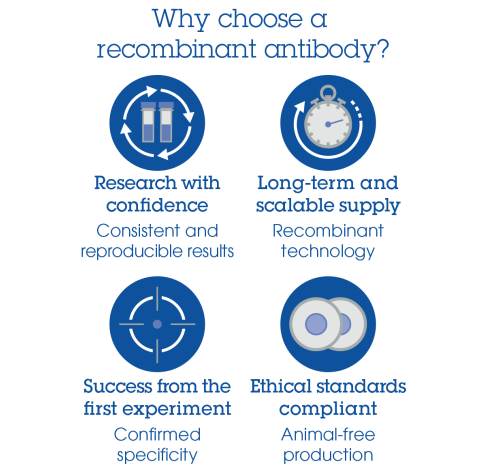


Flow Cytometry (Intracellular) - Alexa Fluor® 647 Anti-GM130 antibody [EP892Y] - cis-Golgi Marker (ab195303)

Overlay histogram showing HeLa cells stained with ab195303 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab195303, 0.1µg/1x10^6 cells) for 30 min at 22ºC. Isotype control antibody (black line) was rabbit IgG (monoclonal) (Alexa® 647) (0.2µl/1x10^6 cells) for 30 min at 22ºC. Unlabelled sample (blue line) was also used as a control.

Acquisition of >5,000 events were collected using a 25mW red solid state diode laser (635nm) and 675/30 bandpass filter.

This antibody gave a positive signal in HeLa fixed with 4% formaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



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