Product Datasheet

GOLGB1/Giantin Antibody - BSA Free
NBP2-22321

Unit Size: 100 ul

Store at 4C. Do not freeze.

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Reviews: 2 Publications: 7

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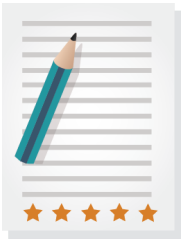
Updated 9/9/2025 v.20.1



NBP2-22321

GOLGB1/Giantin Antibody - BSA Free

Product Information

Unit Size	100 ul
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)

Product Description

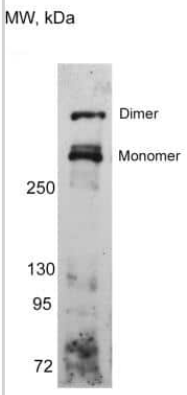
Description	Novus Biologicals Rabbit GOLGB1/Giantin Antibody - BSA Free (NBP2-22321) is a polyclonal antibody validated for use in WB, ICC/IF and IP. Anti-GOLGB1/Giantin Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	2804
Gene Symbol	GOLGB1
Species	Human
Marker	Golgi Apparatus Marker
Immunogen	The immunogen this antibody was made to, maps to a region between residue 425 to 475 of human Golgin B1 using the numbering given in entry NP_004478.3 (GeneID 2804).

Product Application Details

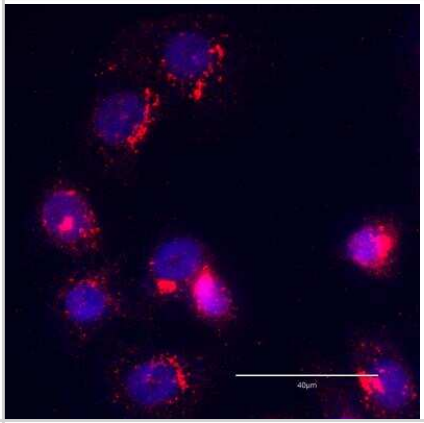
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation
Recommended Dilutions	Western Blot 1:2000 - 1:10000, Immunocytochemistry/ Immunofluorescence Validated from a verified customer review., Immunoprecipitation 2 - 10 ug/mg

Images

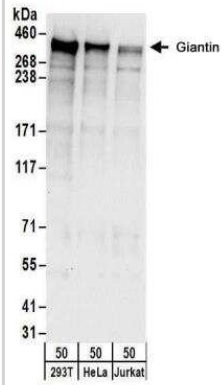
Western Blot: GOLGB1/Giantin Antibody [NBP2-22321] - HeLa cell lysate sample treated with DMSO was run on 8% SDS-PAGE. Both giantin monomer and dimer are indicated. Western blot image submitted by a verified customer review.



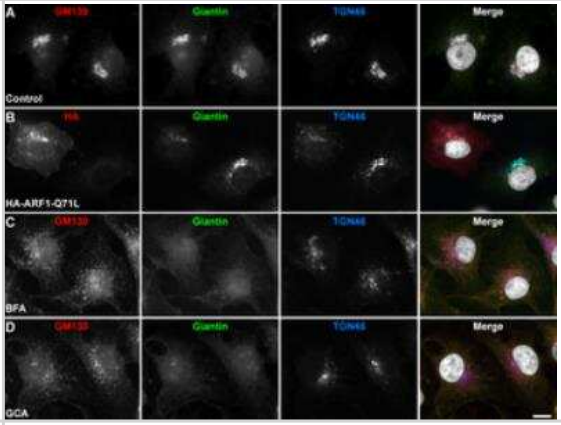
Immunocytochemistry/Immunofluorescence: GOLGB1/Giantin Antibody [NBP2-22321] - PC-3 human prostate cancer cell line. Image was captured using EVOS M5000 microscope. Red - giantin; blue - nucleus, DAPI; bar 40 micron. ICC/IF image submitted by a verified customer review.



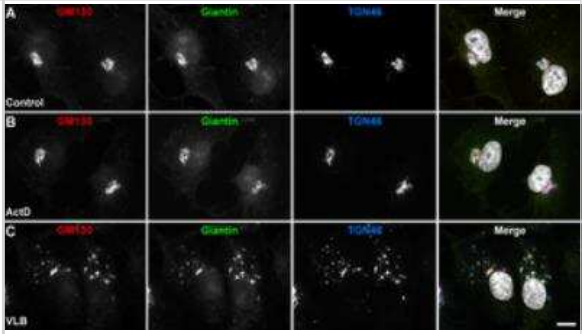
Western Blot: GOLGB1/Giantin Antibody [NBP2-22321] - Whole cell lysate (50 ug) from 293T, HeLa, and Jurkat cells. NBP2-22321 used for WB at 0.1 ug/mL. Detection: Chemiluminescence with an exposure time of 10 seconds.



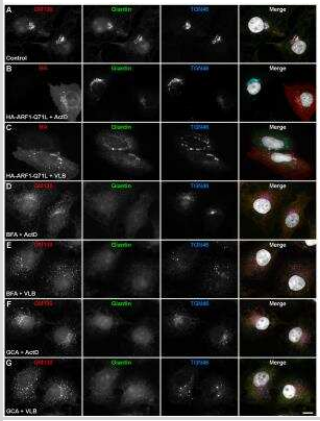
Immunocytochemistry/Immunofluorescence: GOLGB1/Giantin Antibody [NBP2-22321] - Untreated MDA-MB-231 cells showed perinuclear colonization of Giantin and other proteins, demonstrating this cell line exhibits the architecture of a typical Golgi apparatus. Cells were fixed, permeabilized, and immunolabeled with rabbit polyclonal antibody to Giantin. Secondary antibodies in other channels. Nuclei were stained with DAPI (gray channel). Fluorescence microscopy was used to examine stained cells. The final row is a merged image form the previous 3 rows. Overlapping of different combinations of rows indicated in different colors. Bar: 10 um. Image collected and cropped by CiteAb from the following publication (//pubmed.ncbi.nlm.nih.gov/29614107/) licensed under a CC-BY license.



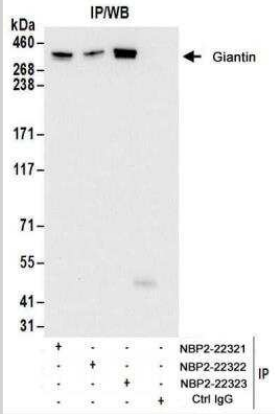
Immunocytochemistry/Immunofluorescence: GOLGB1/Giantin Antibody [NBP2-22321] - Effect of ActD on the perinuclear localization of the Golgi apparatus of MDA-MB-231 cells assessed by immunofluorescence to Giantin, GM130 and TGN46. Cells were fixed, permeabilized, and immunolabeled with rabbit polyclonal antibody to Giantin. The final row is a merged image form the previous 3 rows. Overlapping of different combinations of rows indicated in different colors. Bar: 10 um. Image collected and cropped by CiteAb from the following publication (//pubmed.ncbi.nlm.nih.gov/29614107/) licensed under a CC-BY license.



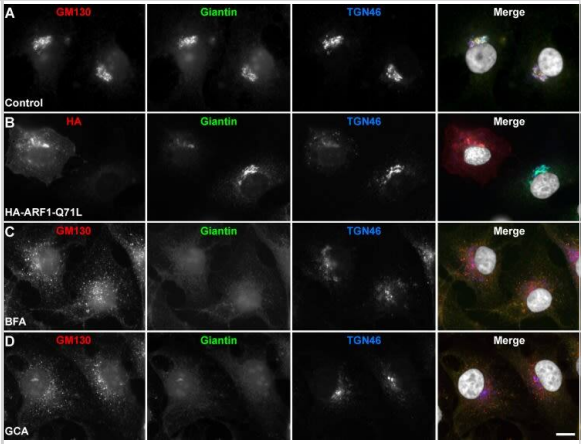
Immunocytochemistry/Immunofluorescence: GOLGB1/Giantin Antibody [NBP2-22321] - Shows the combination effects of antitumor drugs and ARF1 disruptors on the MDA-MB-231 cells Golgi apparatus. Cells were fixed, permeabilized, and immunolabeled with rabbit polyclonal antibody to Giantin. The final row is a merged image form the previous 3 rows. Overlapping of different combinations of rows indicated in different colors. Bar: 10 um. Image collected and cropped by CiteAb from the following publication (//pubmed.ncbi.nlm.nih.gov/29614107/) licensed under a CC-BY license.



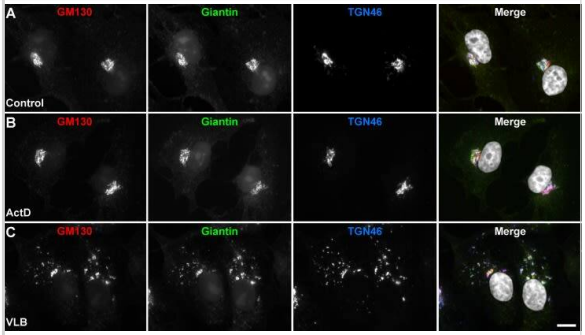
Immunoprecipitation: GOLGB1/Giantin Antibody [NBP2-22321] - Whole cell lysate (1 mg for IP; 20% of IP loaded) from 293T cells. Antibodies: NBP2-22321 used for IP at 6 ug/mg lysate. GOLGB1 was also immunoprecipitated by rabbit anti-GOLGB1 antibodies NBP2-22322 and NBP2-22323. For blotting immunoprecipitated GOLGB1, NBP2-22321 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 10 seconds.



Effect of Golgi disrupting treatments on the Golgi apparatus of MDA-MB-231 cells.Cells were left untreated (A; Control), or transfected to transiently express the HA-epitope-tagged ARF1 constitutively-activated mutant for 16 h (B; HA-ARF1-Q71L), or treated for 60 min either with 5 µg/ml Brefeldin A (C; BFA) or 10 µM Golgicide A (D; GCA). Cells were fixed, permeabilized, and immunolabeled with mouse monoclonal antibody to GM130, rabbit polyclonal antibody to Giantin, and sheep antibody to TGN46. Secondary antibodies were Alexa-594-conjugated donkey anti-mouse IgG (red channel), Alexa-488-conjugated donkey anti-rabbit IgG (green channel), and Alexa-647-conjugated donkey anti-sheep IgG (blue channel). Nuclei were stained with DAPI (gray channel). Stained cells were examined by fluorescence microscopy. Merging red, green, blue, and grey channels generated the fourth image on each row; yellow indicates overlapping localization of the red and green channels, cyan indicates overlapping localization of the green and blue channels, magenta indicates overlapping localization of the red and blue channels, and white indicates overlapping localization of all three channels. Bar, 10 µm. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/29614107), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Effect of Actinomycin D and Vinblastine on the Golgi apparatus of MDA-MB-231 cells.Cells were left untreated (A; Control), or treated for 60 min either with 10 ng/ml Actinomycin D (B; ActD) or 25 nM Vinblastine (C; VLB). Cells were fixed, permeabilized, and immunolabeled with mouse monoclonal antibody to GM130, rabbit polyclonal antibody to Giantin, and sheep antibody to TGN46. Secondary antibodies were Alexa-594-conjugated donkey anti-mouse IgG (red channel), Alexa-488-conjugated donkey anti-rabbit IgG (green channel), and Alexa-647-conjugated donkey anti-sheep IgG (blue channel). Nuclei were stained with DAPI (gray channel). Stained cells were examined by fluorescence microscopy. Merging red, green, blue, and grey channels generated the fourth image on each row; yellow indicates overlapping localization of the red and green channels, cyan indicates overlapping localization of the green and blue channels, magenta indicates overlapping localization of the red and blue channels, and white indicates overlapping localization of all three channels. Bar, 10 µm. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/29614107), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Amanda JM, Taylor ED, Artem NP et al. Alcohol-induced Golgiphagy is triggered by the downregulation of Golgi GTPase RAB3D Autophagy. 2024-04-09 [PMID: 38591519]

Amanda M, Artem P, Taylor D et al. Targeting the ATF6-mediated ER stress response and autophagy blocks integrin-driven prostate cancer progression Mol Cancer Res. 2023-06-14 [PMID: 37314749] (Western Blot, Human)

Frisbie CP, Lushnikov AY, Krasnoslobodtsev AV, et al. Post-ER Stress Biogenesis of Golgi Is Governed by Giantin Cells 2019-12-13 [PMID: 31847122] (IP, Human)

Casey C, Thomes P, Manca S, Petrosyan A. The Role of Golgi Morphology in Post-Alcohol Recovery of Hepatocytes: Observations in Cellular and Animal Models Preprints 2018-10-25 (IP, Human)

Casey CA, Thomes P, Manca S, Petrosyan A. Giantin Is Required for Post-Alcohol Recovery of Golgi in Liver Cells. Biomolecules. 2018-11-16 [PMID: 30453527] (WB, ICC/IF, Human)

Manca S, Frisbie CP, LaGrange CA et al. The Role of Alcohol-induced Golgi Fragmentation for Androgen Receptor Signaling in Prostate Cancer. Mol. Cancer Res. 2018-09-17 [PMID: 30224543] (ICC/IF, Human)

Luchsinger C, Aguilar M, Burgos PV et al. Functional disruption of the Golgi apparatus protein ARF1 sensitizes MDA-MB-231 breast cancer cells to the antitumor drugs Actinomycin D and Vinblastine through ERK and AKT signaling. PLoS ONE 2018-04-03 [PMID: 29614107] (Human)

Details:
Novus Giantin antibody was used in a study looking at the effect of treatment with actinomycin d and vinblastine on the golgi apparatus of MDA-MB-231 cells

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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