

Datasheet for ABIN968197

anti-Golgin A2 (GOLGA2) (AA 869-982) antibody[4 Images](#)[5 Publications](#)[Go to Product page](#)

Overview

Quantity:	150 µg
Target:	Golgin A2 (GOLGA2)
Binding Specificity:	AA 869-982
Reactivity:	Human, Mouse, Rat, Dog
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Rat GM130 aa. 869-982
Clone:	35-GM130
Isotype:	IgG1 kappa
Cross-Reactivity:	Human, Dog (Canine), Mouse (Murine)
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us for technical protocols.3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

chromatography.

Target Details

Target: Golgin A2 (GOLGA2)

Alternative Name: GM130 ([GOLGA2 Products](#))

Background: Maturation and post-translational modification of proteins occurs after their biosynthesis at the endoplasmic reticulum and their transport through the Golgi apparatus. The process involves the transport of vesicles carrying the proteins through a vectorial process of vesicle budding and fusion from the cis-compartment to the medial-compartment and the trans-compartment of the Golgi apparatus. The detergent insoluble fraction of the Golgi is named matrix and is required for proper morphology of the Golgi membranes. GM130 (Golgi matrix protein of 130 kDa) is a protein isolated from the Triton™ X-100-insoluble Golgi matrix and peripherally associated with the cis-compartment, as demonstrated by co-localization with syntaxin5. GM130 is homologous to the Golgi autoantigen golgin 95. GM130 interacts through its N-terminal domain with p115 and with the Golgi membranes at the C-terminal portion. Furthermore, the mitotic phosphorylation of GM130 blocks the interaction with p115. Thus, GM130 appears to function as a structural element of the Golgi apparatus that also provides attachment sites for membranes and other Golgi proteins. The 35/GM130 monoclonal antibody recognizes GM130, regardless of phosphorylation status.

Molecular Weight: 130 kDa

Pathways: [SARS-CoV-2 Protein Interactome](#)

Application Details

Comment: Related Products: ABIN968545, ABIN967389

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 250 µg/mL

Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.

Preservative: Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

Publications

- Product cited in:
- Ireton, Davis, van Hengel, Mariner, Barnes, Thoreson, Anastasiadis, Matrisian, Bundy, Sealy, Gilbert, van Roy, Reynolds: "A novel role for p120 catenin in E-cadherin function." in: **The Journal of cell biology**, Vol. 159, Issue 3, pp. 465-76, (2002) ([PubMed](#)).
- Marra, Maffucci, Daniele, Tullio, Ikehara, Chan, Luini, Beznoussenko, Mironov, De Matteis: "The GM130 and GRASP65 Golgi proteins cycle through and define a subdomain of the intermediate compartment." in: **Nature cell biology**, Vol. 3, Issue 12, pp. 1101-13, (2002) ([PubMed](#)).
- Perez, Pernet-Gallay, Nizak, Goodson, Kreis, Goud: "CLIPR-59, a new trans-Golgi/TGN cytoplasmic linker protein belonging to the CLIP-170 family." in: **The Journal of cell biology**, Vol. 156, Issue 4, pp. 631-42, (2002) ([PubMed](#)).
- Ralston, Lu, Ploug: "The organization of the Golgi complex and microtubules in skeletal muscle is fiber type-dependent." in: **The Journal of neuroscience : the official journal of the Society for Neuroscience**, Vol. 19, Issue 24, pp. 10694-705, (2000) ([PubMed](#)).
- Nakamura, Lowe, Levine, Rabouille, Warren: "The vesicle docking protein p115 binds GM130, a cis-Golgi matrix protein, in a mitotically regulated manner." in: **Cell**, Vol. 89, Issue 3, pp. 445-55, (1997) ([PubMed](#)).



Western Blotting

Image 1. Western blot analysis of GM130 cells on rat brain lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of anti-GM130 antibody.



Immunofluorescence

Image 2. Immunofluorescent staining of WI-38 cells.

Image 3.



Please check the [product details page](#) for more images. Overall 4 images are available for ABIN968197.