

BOSTER BIOLOGICAL TECHNOLOGY

Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

Web: www.boster.com Phone: 027-67845390/1/2 Email: boster@boster.com

Basic Information		
Product Name	Anti-GM130/GOLGA2 Antibody (Clone#4G3)	
Gene Name	GOLGA2	
Source	Mouse	
Clonality	Monoclonal	
lsotype	lgG2b	
Species Reactivity	human	
Tested Application	ICC/IF, FCM, WB, IHC	
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.	
Immunogen	E.coli-derived human GM130 recombinant protein (Position: E796-E913).	
Concentration	500 ug/ml	
Purification	protein G purified.	
Observed MW	130 kDa	
Dilution Ratios	Western blot (WB): Immunohistochemistry (IHC): Immunocytochemistry/Immunofluorescence (ICC/IF): Flow Cytometry (Fixed): (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or mins is required for the staining of formalin/paraffin sections determined by end user.	1:500-2000 1:50-400 1:50-400 1:50-200 r PH8.0 EDTA repair liquid for 20 s.) Optimal working dilutions must be

## **Storage**

12 months from date of receipt, -20°C as supplied.

## **Background Information**

Golgin subfamily A member 2 is a protein that in humans is encoded by the GOLGA2 gene. The Golgi apparatus, which participates in glycosylation and transport of proteins and lipids in the secretory pathway, consists of a series of stacked cisternae (flattened membrane sacs). Interactions between the Golgi and microtubules are thought to be important for the reorganization of the Golgi after it fragments during mitosis. This gene encodes one of the golgins, a family of proteins localized to the Golgi. This encoded protein has been postulated to play roles in the stacking of Golgi cisternae and in vesicular transport. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of these variants has not been determined.



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## **Selected Validation Data**



IF analysis of GM130/GOLGA2 using anti-GM130/GOLGA2 antibody (M05865-1).

GM130/GOLGA2 was detected in an immunocytochemical section of A431 cells. The section was incubated with mouse anti-GM130/GOLGA2 Antibody (M05865-1) at a dilution of 1:100. Dylight488-conjugated Anti-mouse IgG Secondary Antibody (green)(Catalog#BA1126) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of A431 cells using anti-GM130/GOLGA2 antibody (M05865-1).

Overlay histogram showing A431 cells stained with M05865-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-GM130/GOLGA2 Antibody (M05865-1) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



Western blot analysis of GM130/GOLGA2 using anti-GM130/GOLGA2 antibody (M05865-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human placenta tissue lysates, Lane 2: human K562 whole cell lysates, Lane 3: human CACO-2 whole cell lysates, Lane 4: human A549 whole cell lysates, Lane 5: human A431 whole cell lysates, Lane 6: human HEK293 whole cell lysates. After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-GM130/GOLGA2 antigen affinity purified monoclonal antibody (M05865-1) at a dilution of 1:1000

## Product datasheet Anti-GM130/GOLGA2 Antibody (Clone#4G3) Catalog Number: M05865-1



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and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for GM130/GOLGA2 at approximately 130 kDa. The expected band size for GM130/GOLGA2 is at 113 kDa.



IHC analysis of GM130/GOLGA2 using anti-GM130/GOLGA2 antibody (M05865-1).

GM130/GOLGA2 was detected in a paraffin-embedded section of human mammary cancer tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was incubated with mouse anti-GM130/GOLGA2 Antibody (M05865-1) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB (Catalog # AR1027) as the chromogen.