

DESCRIPTION

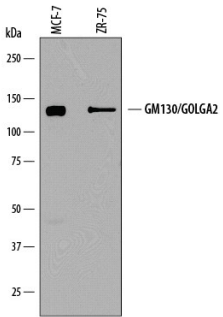
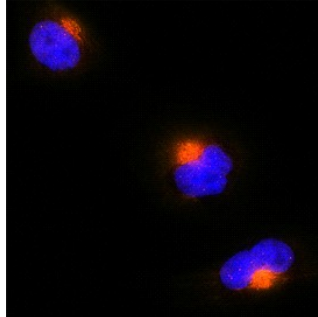
Species Reactivity	Human
Specificity	Detects human GM130/GOLGA2 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human GM130/GOLGA2 Met528-Gln606 Accession # Q08379
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	0.25 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p> 	<p>Detection of Human GM130/GOLGA2 by Western Blot. Western blot shows lysates of MCF-7 human breast cancer cell line and ZR-75 human breast cancer cell line. PVDF membrane was probed with 0.25 µg/mL of Sheep Anti-Human GM130/GOLGA2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8199) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for GM130/GOLGA2 at approximately 130 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunocytochemistry</p>  <p>GM130/GOLGA2 in HeLa Human Cell Line. GM130/GOLGA2 was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Sheep Anti-Human GM130/GOLGA2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8199) at 1.7 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NL010) and counterstained with DAPI (blue). Specific staining was localized to Golgi apparatus vesicles. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

GM130, also known as Golgin subfamily A member 2 and GOLGA2, is a 130 kDa member of the Golgin protein family. GM130/GOLGA2 is a component of the Golgi membrane involved in maintaining cis-Golgi structure. GM130/GOLGA2 protein is thought to play roles in the stacking of Golgi cisternae and in vesicular transport. Several alternatively spliced transcript variants of this gene have been predicted. Human GM130/GOLGA2 protein is 1002 amino acids (aa) in length, and over aa 528-606, shares 90% sequence identity with its mouse and rat orthologs.