

DESCRIPTION

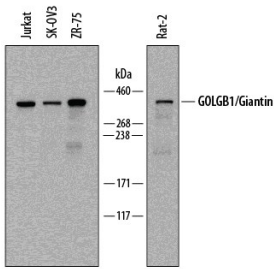
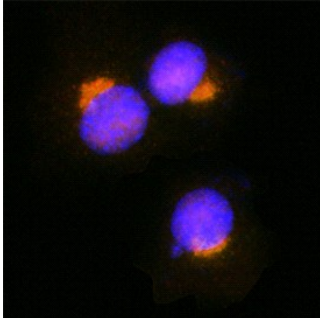
Species Reactivity	Human/Rat
Specificity	Detects human GOLGB1/Giantin in direct ELISAs. Detects human and rat GOLGB1/Giantin in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human GOLGB1/Giantin Ser1596-Glu1702 Accession # Q14789
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 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	1 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human and Rat GOLGB1/Giantin by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line, SK-OV-3 human ovarian adenocarcinoma cell line, ZR-75 human breast cancer cell line, and Rat-2 rat embryonic fibroblast cell line. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human/Rat GOLGB1/Giantin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8159) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for GOLGB1/Giantin at approximately 370 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunocytochemistry</p>  <p>GOLGB1/Giantin in HeLa Human Cell Line. GOLGB1/Giantin was detected in 2% paraformaldehyde immersion fixed HeLa human cervical epithelial carcinoma cell line using Sheep Anti-Human/Rat GOLGB1/Giantin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8159) 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

GOLGB1, also known as Giantin and Macroglolin, is a 360 to 400 kDa member of the Golgin protein family. GOLGB1 is an integral component of the Golgi membrane that associates with the cytoskeleton. It may be involved in both forming intercisternal cross-bridges that mediate stacking in Golgi complexes, and in reorganizing the complexes after they fragment during mitosis. GOLGB1 has also been identified as an autoantigen in chronic rheumatoid arthritis, and in the autoimmune disease Sjogren syndrome. Human GOLGB1 is 3259 amino acids (aa) in length, and over aa 1596-1702, shares 92% and 91% sequence identity with its mouse and rat orthologs, respectively.