

#### DESCRIPTION

|                                                                                                                                                                                                         |                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human/Mouse/Rat                                                                                              |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human Golgi Glycoprotein 1/GLG1 in direct ELISAs and Western blots.                                  |
| <b>Source</b>                                                                                                                                                                                           | Polyclonal Sheep IgG                                                                                         |
| <b>Purification</b>                                                                                                                                                                                     | Antigen Affinity-purified                                                                                    |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant human Golgi Glycoprotein 1/GLG1<br>Lys1048-Asn1145<br>Accession # Q92896 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 700<br>Excitation Wavelength: 675-700 nm<br>Emission Wavelength: 723 nm                          |
| <b>Formulation</b>                                                                                                                                                                                      | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                                                 |
| *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |                                                                                                              |

#### 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.

|                             |                                                                        |
|-----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>         | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunocytochemistry</b>  | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunohistochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### BACKGROUND

GLG1 (Golgi complex-Localized Glycoprotein 1; also CFR1, E-Selectin ligand-1/ESL-1, MG-160 and Cys-rich FGF receptor) is a 150-160 kDa (reducing; 130 kDa nonreducing) glycoprotein. It is expressed in both Golgi and/or the cell membrane of multiple cell types, including neutrophils (from rodents; not humans), liver stellate cells, neurons, cardiac myocytes, monocytes and bronchial epithelial cells. In the blood, GLG1/ESL-1 collaborates with PSGL-1 to mediate leukocyte binding to endothelial cell surfaces. PSGL-1 initiates leukocyte tethering while GLG1 promotes slow rolling. GLG1 also serves as an intra-Golgi receptor for multiple FGFs, including FGF-1, -2, -4, -18 and possibly -3, and as a component of an unusual latent TGF-β complex. Mature human GLG1 is an 1150 amino acid (aa) type I transmembrane protein. It contains a 1116 aa extracellular/luminal region (aa 30-1145) plus a short 13 aa cytoplasmic segment. The extracellular region possesses a 16 aa poly-Gln segment followed by 16 Cys-rich repeats (aa 116-1101). There are three potential isoform variants, one of which possess a 24 aa extension at the C-terminus, a second that couples the aforementioned C-terminal extension to a deletion of aa 147-157, and a third that contains a 14 aa substitution for aa 685-1179. It is suggested that the longer C-terminus retains GLG1 in the Golgi, while shorter cytoplasmic segments allow for presentation at the cell membrane. Over aa 1048-1145, human and mouse are identical in aa sequence.

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