

## Rabbit GOLGA2 Polyclonal Antibody | anti-GOLGA2 antibody

GOLGA2 Antibody

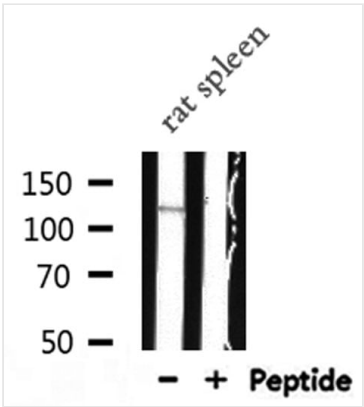
| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                              |
|-----------|--------|-------------------|-------------------------------------------|
| AAA326989 | Rabbit | Human, Mouse, Rat | ELISA, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

GOLGA2; Polyclonal Antibody; GOLGA2 Antibody; 130 kDa cis Golgi matrix protein; 130 kDa cis-Golgi matrix protein; Cis golgi matrix protein GM130; GM130; Gm130 autoantigen; GOGA2\_HUMAN; GOLGA 2; Golga2; Golgi autoantigen; Golgi autoantigen golgin subfamily a 2; Golgi matrix protein GM130; Golgin 95; golgin A2; Golgin subfamily a 2; Golgin subfamily A member 2; Golgin-95; MGC20672; SY11 protein; anti-GOLGA2 antibody

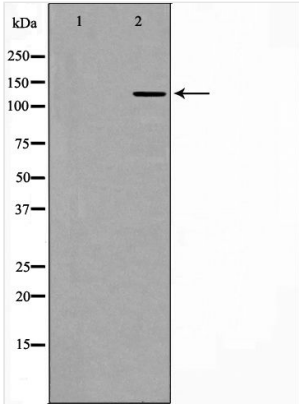
### PRODUCT SPECIFICATIONS

|                                                  |                                                                                               |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                        |
| Reactivity                                       | Human, Mouse, Rat                                                                             |
| Clonality                                        | Polyclonal                                                                                    |
| Isotype                                          | IgG                                                                                           |
| Specificity                                      | GOLGA2 antibody detects endogenous levels of total GOLGA2                                     |
| Purity/Purification                              | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin. |
| Form/Format                                      | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Concentration                                    | 1mg/ml (varies by lot)                                                                        |
| Sequence Length                                  | 1002                                                                                          |
| Applicable Applications for anti-GOLGA2 antibody | ELISA, IHC (Immunohistochemistry), WB (Western Blot)                                          |
| Immunogen                                        | A synthesized peptide derived from human GOLGA2                                               |
| Subcellular Location                             | Golgi Apparatus > Golgi Stack Membrane.                                                       |
| Predicted Cross Reactivity                       | Chicken                                                                                       |
| Similarity                                       | Chicken (80%)                                                                                 |
| Conjugation                                      | Unconjugated                                                                                  |
| Preparation and Storage                          | Store at -20 degree C. Stable for 12 months from date of receipt.                             |



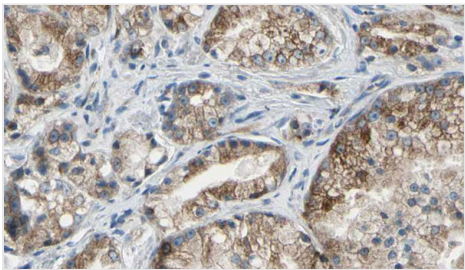
WB (Western Blot)

Western blot analysis of RAD51 expression in Rat spleen lysate



WB (Western Blot)

Western blot analysis of Hela whole cell lysates, using GOLGA2 Antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA326989 at 1/100 staining Human prostate tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| Related Product Information for anti-GOLGA2 antibody | <p>Description: 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.</p> <p>Function: Peripheral membrane component of the cis-Golgi stack that acts as a membrane skeleton that maintains the structure of the Golgi apparatus, and as a vesicle tether that facilitates vesicle fusion to the Golgi membrane. Together with p115/USO1 and STX5, involved in vesicle tethering and fusion at the cis-Golgi membrane to maintain the stacked and inter-connected structure of the Golgi apparatus. Plays a central role in mitotic Golgi disassembly: phosphorylation at Ser-37 by CDK1 at the onset of mitosis inhibits the interaction with p115/USO1, preventing tethering of COPI vesicles and thereby inhibiting transport through the Golgi apparatus during mitosis (By similarity). Also plays a key role in spindle pole assembly and centrosome organization (PubMed:26165940). Promotes the mitotic spindle pole assembly by activating the spindle assembly factor TPX2 to nucleate microtubules around the Golgi and capture them to couple mitotic membranes to the spindle: upon phosphorylation at the onset of mitosis, GOLGA2 interacts with importin-alpha via the nuclear localization signal region, leading to recruit importin-alpha to the Golgi membranes and liberate the spindle assembly factor TPX2 from importin-alpha. TPX2 then activates AURKA kinase and stimulates local microtubule nucleation. Upon filament assembly, nascent microtubules are further captured by GOLGA2, thus linking Golgi membranes to the spindle (PubMed:19242490, PubMed:26165940). Regulates the meiotic spindle pole assembly, probably via the same mechanism (By similarity). Also regulates the centrosome organization (PubMed:18045989, PubMed:19109421). Also required for the Golgi ribbon formation and glycosylation of membrane and secretory proteins (PubMed:16489344, PubMed:17314401).</p> <p>Subunit Structure: Part of a larger oligomeric complex (By similarity). Interacts with p115/USO1 (By similarity). Interacts with RAB1B that has been activated by GTP-binding (PubMed:11306556). Interacts with GORASP1/GRASP65 (PubMed:16489344, PubMed:18045989). Interacts with ZFPL1 (PubMed:18323775). Interacts with AKAP450/AKAP9; leading to recruit AKAP450/AKAP9 to the cis-Golgi (PubMed:19242490).</p> <p>Post-translational Modifications: Cleaved by caspases at the onset of apoptosis. Methylation by PRMT5 is required for Golgi ribbon formation. While dimethylation at Arg-30 and Arg-35 are confirmed in vivo, it is unclear whether Arg-18 is methylated in vivo. Phosphorylated at Ser-37 by CDK1 at the onset of mitosis, inhibiting the interaction with p115/USO1 and triggering Golgi disassembly (PubMed:20421892, PubMed:26165940). Phosphorylated at Ser-37 in prophase as the Golgi complex starts to break down, and remains phosphorylated during further breakdown and partitioning of the Golgi fragments in metaphase and anaphase. In telophase, GM130 is dephosphorylated by PP2A as the Golgi fragments start to reassemble (By similarity).</p> <p>Similarity: The nuclear localization signal (cNLS) mediates interaction with importin-alpha, recruiting importin-alpha to the Golgi membrane and liberating TPX2. Belongs to the GOLGA2 family.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                            |
|----------------------------------|--------------------------------------------|
| NCBI GI #                        | 194097392                                  |
| NCBI GeneID                      | 2801                                       |
| NCBI Accession #                 | NP_004477.3                                |
| NCBI GenBank Nucleotide #        | NM_004486.4                                |
| UniProt Accession #              | Q08379; Q6GRM9; Q9BRB0; Q9NYF9; A0A0C4DGS5 |
| Molecular Weight                 | Observed: 130 kDa<br>Predicted: 114 kDa    |
| NCBI Official Full Name          | golgin subfamily A member 2                |
| NCBI Official Synonym Full Names | golgin A2                                  |
| NCBI Official Symbol             | GOLGA2                                     |
| NCBI Official Synonym Symbols    | GM130                                      |
| NCBI Protein Information         | golgin subfamily A member 2                |
| UniProt Protein Name             | Golgin subfamily A member 2                |

|                            |                                                               |
|----------------------------|---------------------------------------------------------------|
| UniProt Gene Name          | GOLGA2                                                        |
| UniProt Synonym Gene Names | GM1302 PublicationsManual assertion based on opinion iniRef.1 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/golga2-antibody-immunohistochemistry-western-blot-elisa/326989>