

**Functional Giantin Antibody, mAb (recombinant)**  
**Catalog # ADP0037****Specification**

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**Functional Giantin Antibody, mAb (recombinant) - Product Information**

Application	ICC
Primary Accession	<a href="#">Q14789</a>
Reactivity	Human, Mouse
Host	Purified From HEK 293 Cell culture Supernatant.
Clonality	Monoclonal
Isotype	Human IgG2λ
Gene Source	Human
Application Note	ICC(1:1'000)
Calculated MW	376019
Description	anti-Giantin, monoclonal antibody (recombinant) (TA10) is composed of human variable regions (VH and VL) (λ-chain) of immunoglobulin fused to the human IgG2 Fc domain.

anti-Giantin, monoclonal antibody (recombinant) (TA10) is an antibody developed by antibody phage display technology using a human naive antibody gene library. These libraries consist of scFv (single chain fragment variable) composed of VH (variable domain of the human immunoglobulin heavy chain) and VL (variable domain of the human immunoglobulin light chain) connected by a polypeptide linker. The antibody fragments are displayed on the surface of filamentous bacteriophage (M13). This scFv was selected by affinity selection on antigen in a process termed panning. Multiple rounds of panning are performed to enrich for antigen-specific scFv-phage. Monoclonal antibodies are subsequently identified by screening after each round of selection. The selected monoclonal scFv is cloned into an appropriate vector containing a Fc portion of interest and then produced in mammalian cells to generate an IgG like scFv-Fc fusion protein.

**Functional Giantin Antibody, mAb (recombinant) - Additional Information**

**Gene ID 2804****Other Names**

Golgin Subfamily B Member 1; 372 kDa Golgi Complex-associated Protein; GCP372; Macrogolgin

**Target/Specificity**

Recognizes human and mouse giantin.

**Format**

Liquid. In PBS containing 10% glycerol and 0.02% sodium azide.

**Reconstitution & Storage**

Stable for at least 1 month after receipt when stored at +4°C. Stable for at least 1 year after receipt when stored at -20°C.

**Precautions**

Functional Giantin Antibody, mAb (recombinant) is for research use only and not for use in diagnostic or therapeutic procedures.

**Functional Giantin Antibody, mAb (recombinant) - Protein Information****Name** GOLGB1**Function**

May participate in forming intercisternal cross-bridges of the Golgi complex.

**Cellular Location**

Golgi apparatus membrane; Single-pass type I membrane protein

**Functional Giantin Antibody, mAb (recombinant) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Functional Giantin Antibody, mAb (recombinant) - Images****Functional Giantin Antibody, mAb (recombinant) - Background**

Giantin, the largest Golgi membrane protein, is C-terminally anchored to cis- and medial-Golgi membranes and forms a long ~250nm coiled-coil rod that directly interacts with microtubules in a cell-cycle regulated way. It is an excellent marker for mammalian golgi complex. It is also an antigen in chronic rheumatoid arthritis and in the autoimmune disease Sjogren syndrome.