AdipoGen®
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PRODUCT DATA SHEET

AG-27B-0003TD 21-Feb-2011

anti-Giantin, mAb (rec.) (TA10) (ATTO 488)

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

AG-27B-0003TD-C100	100 µg

Conjugates/Labels	ATTO 488
Clone	TA10
Source/Host	Purified from HEK 293 cell culture supernatant.
Isotype	Human IgG2λ
Immunogen	Human recombinant giantin.

Handling / Storage

Shipping	BLUE ICE
Short Term Storage	+4°C
Long Term Storage	+4°C

Use / Stability

Keep conjugated formats at +4°C. Stable for at least 1 year after receipt when stored at +4°C.

MSDS available at www.adipogen.com or upon request.

Product Specifications

Specificity	Recognizes human and mouse giantin.
Species Crossreactivity	Human / Mouse
Application	**Immunocytochemistry:** (1:1'000)
Purity	≥95% (SDS-PAGE)
Formulation	Liquid. In PBS containing 0.02% sodium azide.
Concentration	1mg/ml

WARNING: Intended for research use only. This product is not intended or approved for human, diagnostics, therapeutic or veterinary use. Use of this product for human or animal testing is extremely hazardous and may result in disease, severe injury, or death. **MATERIAL SAFETY DATA:** Review the complete Material Safety Data Sheet before use.

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Other Product Data

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.

Product Description

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 Sjoegren syndrome.

Product Specific References

1. Recombinant antibodies selected against subcellular fractions to track endogenous protein dynamics in vivo: C. Nizak, et al.; Traffic **7,** 739 (2003)
2. Characterization of single chain antibody targets through yeast two hybrid: O. Vielemeyer, et al; BMC Biotechnol. **10,** 59 (2010)

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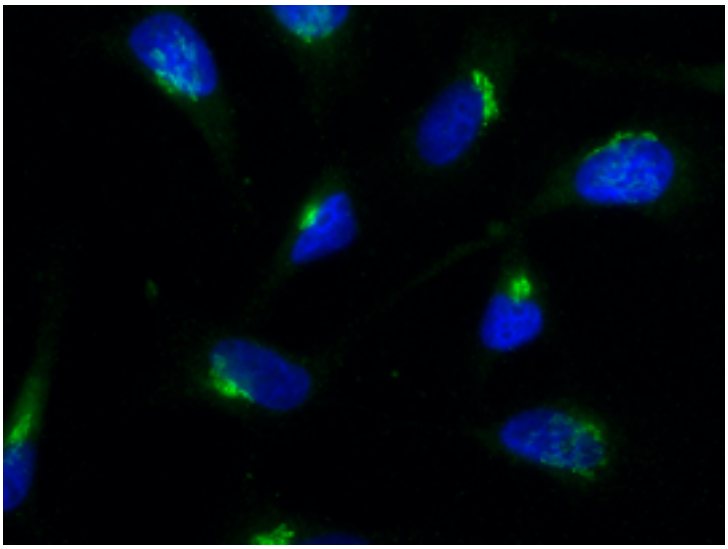

Figure 1: Human giantin is detected by immunocytochemistry using anti-Giantin, mAb (rec.) (TA10) (ATTO 488) (Prod. No. AG-27B-0003TD).
Method: HeLa cells are grown in standard culture conditions, fixed with methanol, and incubated with using anti-Giantin, mAb (rec.) (TA10) (ATTO 488) (Prod. No. AG-27B-0003TD) (1µg /ml in PBS-BSA). After incubation for 30 min at RT and several washes in PBS, cells are mounted in Moewiol. Nuclei are stained with DAPI.
Picture courtesy of Dr. Moutel, Dr. Franck Perez Lab, Curie Institute, Paris.

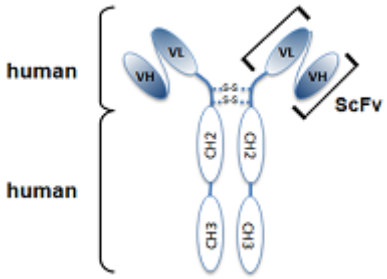

Figure 2: Structure of the recombinant antibody anti-Giantin (h), mAb (rec.)(TA10) (Prod. No. AG-27B-0003). The single chain variable human fragment (ScFv) selected by antibody phage display technology and specific to the antigen of interest is fused to a human IgG2 Fc region.

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