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KD-Validated Anti-GOPC Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1544

Specification

KD-Validated Anti-GOPC Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	Q9HD26
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 51 kDa , observed , 51 kDa KDa**
Gene Name	**GOPC**
Aliases	**GOPC; Golgi Associated PDZ And Coiled-Coil Motif Containing; PIST; FIG; CAL; DJ94G16.2; GOPC1; Golgi-Associated PDZ And Coiled-Coil Motif-Containing Protein; PDZ Protein Interacting Specifically With TC10; CFTR-Associated Ligand; Fused In Glioblastoma; PDZ/Coiled-Coil Domain Binding Partner For The Rho-Family GTPase TC10; Golgi-Associated PDZ And Coiled-Coil Motif Containing Protein; DJ94G16.2 PIST**
Immunogen	**A synthesized peptide derived from human PIST**

KD-Validated Anti-GOPC Rabbit Monoclonal Antibody - Additional Information

Gene ID	**57120**

Other Names
Golgi-associated PDZ and coiled-coil motif-containing protein {ECO:0000312|HGNC:HGNC:17643}, CFTR-associated ligand, Fused in glioblastoma, PDZ protein interacting specifically with TC10, PIST, GOPC (HGNC:17643)

KD-Validated Anti-GOPC Rabbit Monoclonal Antibody - Protein Information

Name GOPC (HGNC:17643)

Function
Plays a role in intracellular protein trafficking and degradation (PubMed:11707463, PubMed:14570915, PubMed:15358775). May regulate CFTR chloride currents and acid-induced ASIC3 currents by modulating cell surface expression of both channels (By similarity). May also regulate the intracellular trafficking of the ADR1B receptor (PubMed:15358775).

May play a role in autophagy (By similarity). Together with MARCHF2 mediates the ubiquitination and lysosomal degradation of CFTR (PubMed:23818989). Overexpression results in CFTR intracellular retention and lysosomaldegradation in the lysosomes (PubMed:11707463, PubMed:14570915).

Cellular Location
Cytoplasm. Golgi apparatus membrane; Peripheral membrane protein. Golgi apparatus, trans-Golgi network membrane; Peripheral membrane protein Synapse. Postsynaptic density. Cell projection, dendrite. Note=Enriched in synaptosomal and postsynaptic densities (PSD) fractions. Expressed in cell bodies and dendrites of Purkinje cells. Localized at the trans-Golgi network (TGN) of spermatids and the medulla of round spermatides.

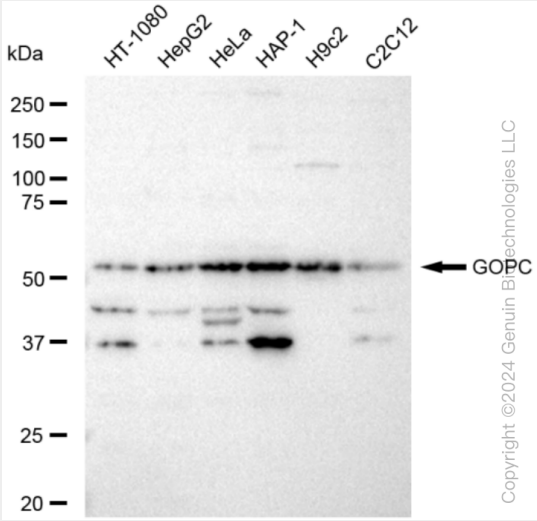
Tissue Location
Ubiquitously expressed.

KD-Validated Anti-GOPC Rabbit Monoclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-GOPC Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-GOPC antibody (Cat#AGI1544). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-GOPC antibody (Cat#AGI1544, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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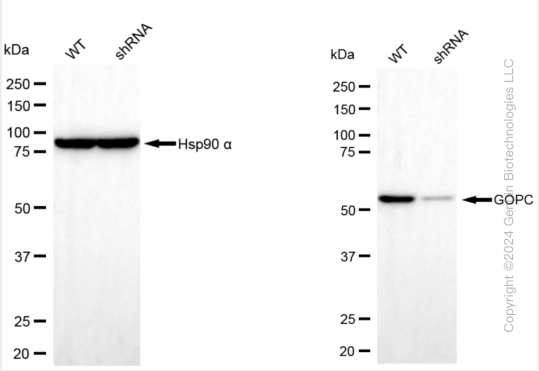
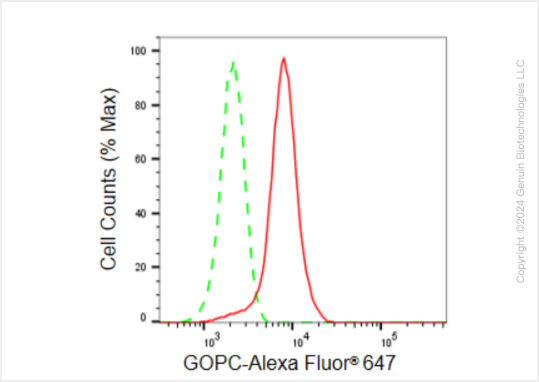
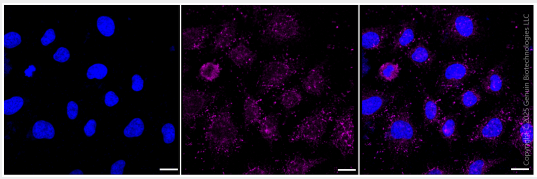


Western blotting analysis using anti-GOPC antibody (Cat#AGI1544). GOPC expression in wild type (WT) and GOPC shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-GOPC antibody (Cat#AGI1544, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of GOPC expression in HeLa cells using GOPC antibody (Cat#AGI1544, 1:2,000). Green, isotype control; red, GOPC.



Immunocytochemical staining of Hela cells with anti-GOPC antibody (Cat#AGI1544, 1:1,000). Nuclei were stained blue with DAPI; GOPC was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.