abcam

ab277142

Anti-GOLPH2 antibody [024] - BSA and Azide free

Recombinant

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Fragment Protein within Human GOLM1 aa 1-450. The exact immunogen used to generate this antibody is proprietary information. Database link Q8NBJ4
Carrier free	Yes
Clone number	024
Purification technique	Affinity purification Protein A

Reactivity data

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/25 - 1/100
Notes	-

Target data

See full target information GOLM1

Function	Unknown. Cellular response protein to viral infection.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	GOLPH2 also known as GOLM1 or Golgi membrane protein 1 has a significant mechanical role in the cell. It is a 73-kilodalton protein found mainly in the Golgi apparatus. This protein gets expressed in various tissues with notable levels in the liver and other organs involved in secretion. It acts as a transmembrane protein in the Golgi where it helps in processing and sorting secretory proteins influencing how proteins move through secretory pathways.
Biological function summary	GOLPH2 plays an essential role in maintaining Golgi function and efficient protein trafficking. It does not belong to a large protein complex but its proper functioning is critical for handling secretory pathways. The protein keeps secretory flow organized which affects cellular responses and interactions with the environment. The GOLPH2 protein also has connections to immunity responding to stimuli like infections or inflammation.
Pathways	GOLPH2 actively participates in secretory pathways and protein transport systems. Its role includes coordination with other Golgi proteins to facilitate protein modification and sorting. GOLPH2 interacts with other proteins like GOLM1 and GOLPH3 impacting the Golgi's structural organization and influencing pathways like vesicular transport. These interactions are important for adapting the intracellular environment to external demands.
Associated diseases and disorders	GOLPH2 levels change in diseases such as liver cancer and hepatitis. These changes can serve as biomarkers for diagnosis and disease progression monitoring. GOLPH2 also connects with proteins involved in these diseases including AFP a known tumor marker. Understanding GOLPH2's role in such conditions aids research in developing diagnostic tools and therapeutic strategies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

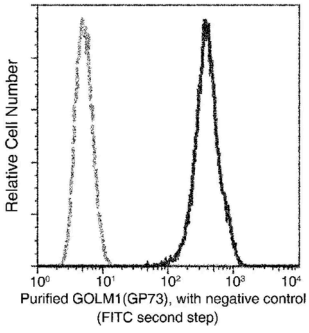
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1 product image



Flow Cytometry (Intracellular) - Anti-GOLPH2 antibody [024] - BSA and Azide free (ab277142)

GOLPH2 Flow Cytometry (Intracellular) staining using rabbit Anti-GOLPH2 antibody

Intracellular flow cytometric analysis of GOLPH2 expression on HeLa (human epithelial cell line from cervix adenocarcinoma) cells. The cells were stained with ab277142 at 1/25 dilution then a FITC-conjugated second step antibody. The Fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.

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