

Product Name: KD-Validated GOLM1 Mouse Monoclonal Antibody**Catalog #: KVA00537**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC,IHC-P
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:200-1:1,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 45.3kDa

Antigen Information

Gene Name	GOLM1 GOLM1; Golgi Membrane Protein 1; Golgi Phosphoprotein 2; BA379P1.3; C9orf155; GOLPH2;
Alternative Names	GP73; Golgi Membrane Protein GP73; FLJ23608; Chromosome 9 Open Reading Frame 155; Epididymis Luminal Protein 46; Golgi Protein, 73-KD; PSEC0257; HEL46
Gene ID	51280.0
SwissProt ID	Q8NBJ4
Immunogen	Recombinant protein of human GOLM1

Background

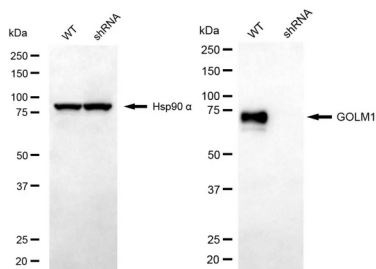
The Golgi complex plays a key role in the sorting and modification of proteins exported from the endoplasmic reticulum. The protein encoded by this gene is a type II Golgi transmembrane protein. It processes proteins synthesized in the rough

endoplasmic reticulum and assists in the transport of protein cargo through the Golgi apparatus. The expression of this gene has been observed to be upregulated in response to viral infection. Alternatively spliced transcript variants encoding the same protein have been described for this gene. [provided by RefSeq, Sep 2009]

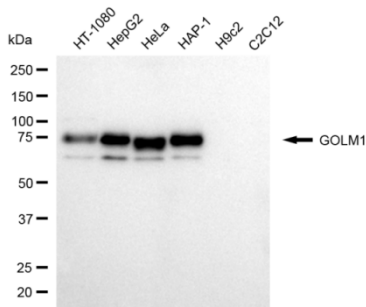
Research Area

Cell Biology, Tags & Cell Markers

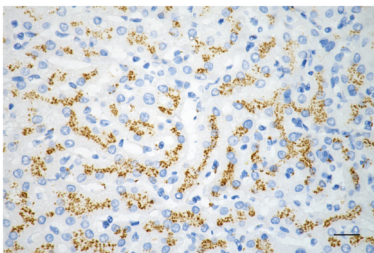
Image Data



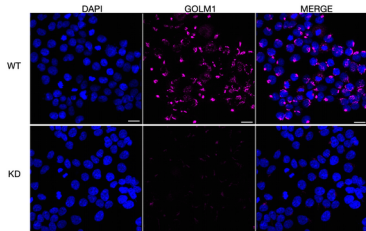
Western blotting analysis using GOLF1 antibody (KVA00537). GOLF1 expression in wild-type (WT) and GOLF1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with GOLF1 antibody (KVA00537, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



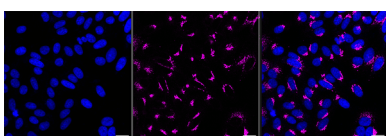
Western blotting analysis using GOLF1 antibody (KVA00537). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with GOLF1 antibody (KVA00537, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



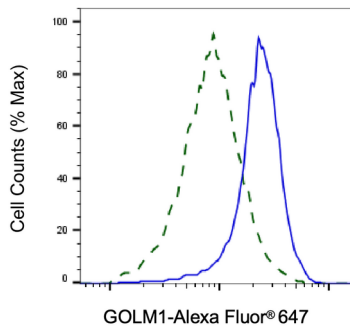
Immunohistochemistry was performed on paraffin-embedded human hepatocarcinoma using GOLF1 antibody (KVA00537, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



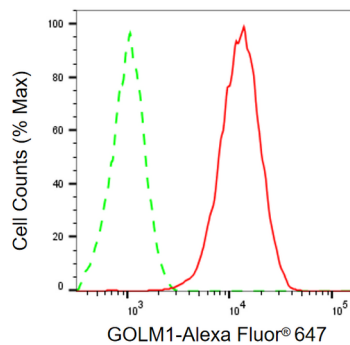
Immunocytochemical staining of HeLa cells using GOLF1 antibody (KVA00537, 1:1,000), Top panel: wild-type (WT); Bottom panel: GOLF1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; GOLF1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HepG2 cells with GOLF1 antibody (KVA00537, 1:1,000). Nuclei were stained blue with DAPI; GOLF1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar, 20 µm.



Validation of GOLM1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with GOLM1 antibody (KVA00537, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of GOLM1 expression in HepG2 cells using GOLM1 antibody (KVA00537, 1:2,000). Green, isotype control; red, GOLM1.