
Product Name: KD-Validated Flotillin 1 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00238

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit 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 1:2,000-1:10,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 47.4kDa

Antigen Information

Gene Name	FLOT1
Alternative Names	Flotillin 1; Flotillin-1; Integral Membrane Component Of Caveolae
Gene ID	10211.0
SwissProt ID	O75955
Immunogen	A synthesized peptide derived from human Flotillin 1

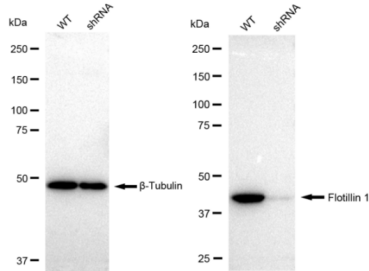
Background

This gene encodes a protein that localizes to the caveolae, which are small domains on the inner cell membranes. This protein plays a role in vesicle trafficking and cell morphology. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]

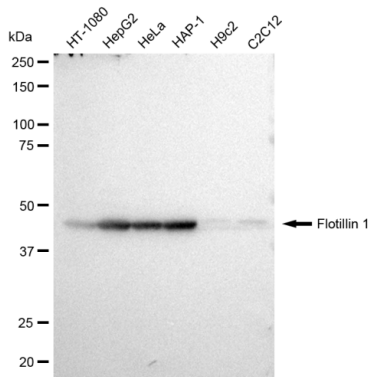
Research Area

Signal Transduction, Cell Biology

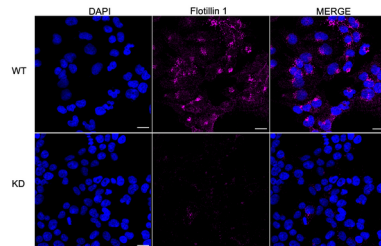
Image Data



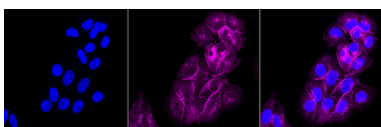
Western blotting analysis using Flotillin 1 antibody (KVA00238). Flotillin 1 expression in wild type (WT) and Flotillin 1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Flotillin 1 antibody (KVA00238, 1:10,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



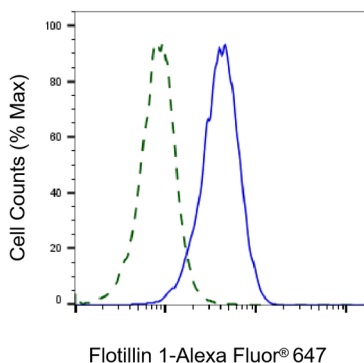
Western blotting analysis using Flotillin 1 antibody (KVA00238). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Flotillin 1 antibody (KVA00238, 1:10,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



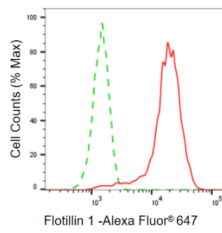
Immunocytochemical staining of HeLa cells using flotillin 1 antibody (KVA00238, 1:1,000), Top panel: wild-type (WT); Bottom panel: Flotillin 1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Flotillin 1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of HepG2 cells with Flotillin 1 antibody (KVA00238, 1:1,000). Nuclei were stained blue with DAPI; Flotillin 1 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.



Validation of Flotillin 1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Flotillin 1 antibody (KVA00238, 1:2,000) and analyzed using CytoFLEX.



Flow cytometric analysis of Flotillin 1 expression in HepG2 cells using Flotillin 1 antibody (KVA00238, 1:2,000). Green, isotype control; red, Flotillin 1.