

**Product Name: KD-Validated Flotillin 1 Recombinant Rabbit Monoclonal Antibody**  
**Catalog #: KVA00255**

For research use only.

## Summary

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

## Application

|                         |                                                                             |
|-------------------------|-----------------------------------------------------------------------------|
| <b>Dilution Ratio</b>   | WB 1:2,000-1:10,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200 |
| <b>Molecular Weight</b> | Calculated MW: 47.4kDa                                                      |

## Antigen Information

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

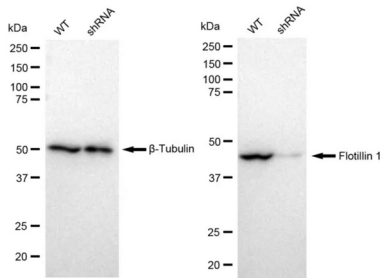
## Background

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]

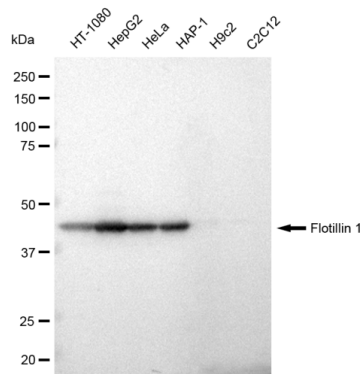
## Research Area

Signal Transduction, Cell Biology

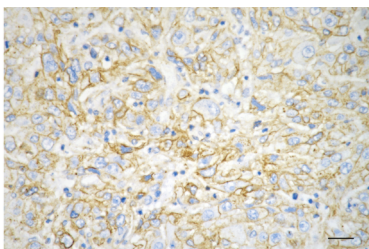
## Image Data



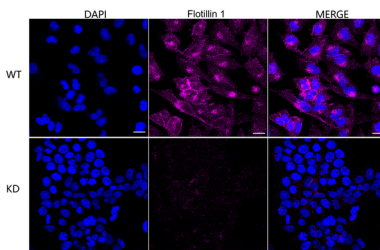
Western blotting analysis using Flotillin 1 antibody (KVA00255). Flotillin 1 expression in wild type (WT) and Flotillin 1 shRNA knockdown (KD) HeLa cells with 30  $\mu$ g of total cell lysates.  $\beta$ -Tubulin serves as a loading control. The blot was incubated with Flotillin 1 antibody (KVA00255, 1:10,000) and HRP-conjugated goat anti rabbit secondary antibody (APS0635, 1:10,000) respectively.



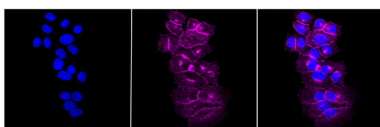
Western blotting analysis using Flotillin 1 antibody (KVA00255). Total cell lysates (30  $\mu$ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Flotillin 1 antibody (KVA00255, 1:10,000) and HRP-conjugated goat anti rabbit secondary antibody (APS0635, 1:10,000) respectively.



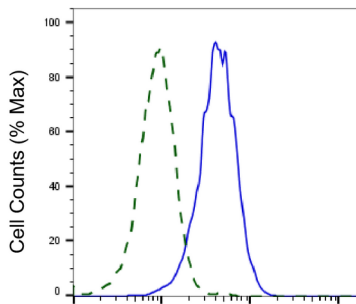
Immunohistochemistry was performed on paraffin-embedded human hepatocarcinoma using flotillin 1 antibody (KVA00255, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40 $\times$  objective). Scale bar: 25  $\mu$ m.



Immunocytochemical staining of HeLa cells using Flotillin 1 antibody (KVA00255, 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  $\mu$ m. Permeabilization: Triton.

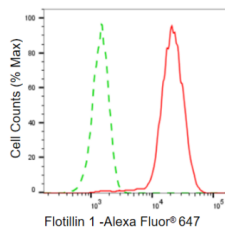


Immunocytochemical staining of HepG2 cells with Flotillin 1 antibody (KVA00255, 1:1,000). Nuclei were stained blue with DAPI; Flotillin 1 was stained magenta with Alexa Fluor® 647. Scale bar, 20  $\mu$ m.



Flotillin 1-Alexa Fluor® 647

Validation of Flotillin 1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Flotillin 1 antibody (KVA00255, 1:2,000) and analyzed using CytoFLEX.



Flow cytometric analysis of Flotillin 1 expression in HepG2 cells using Flotillin 1 antibody (KVA00255,1:2,000). Green, isotype control; red, Flotillin 1.