Flotillin 1 Rabbit mAb

Catalog No: #49861

Package Size: #49861-1 50ul #49861-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

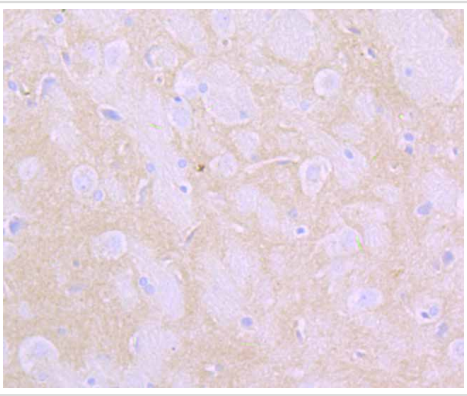
Description

Product Name	Flotillin 1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JB19-45
Purification	ProA affinity purified
Applications	WB,IHC,FC,ICC/IF
Species Reactivity	Human;Mouse;Rat
Immunogen Description	Recombinant protein
Conjugates	Unconjugated
Other Names	FLOT 1 antibody FLOT1 antibody FLOT1_HUMAN antibody Flotillin-1 antibody Flotillin1 antibody Integral membrane component of caveolae antibody Reggie 2 antibody
Accession No.	Swiss-Prot#:O75955
Calculated MW	47 kDa
SDS-PAGE MW	48 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

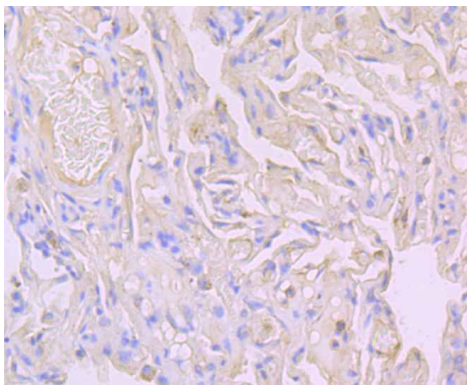
Application Details

WB: 1:500-1:1,000 IHC: 1:50-1:100 FC: 1:50-1:100

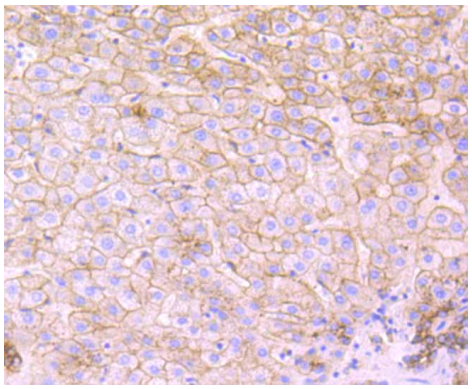
Images



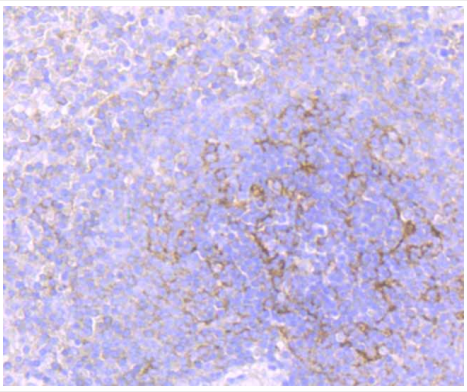
Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-Flotillin 1 antibody. Counter stained with hematoxylin.



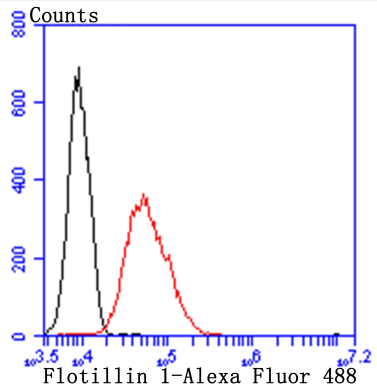
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-Flotillin 1 antibody. Counter stained with hematoxylin.



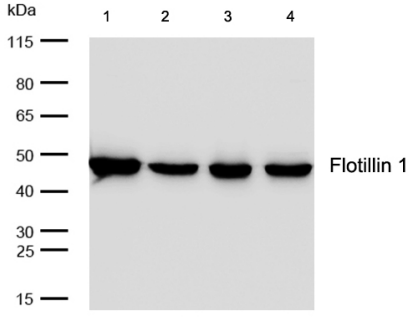
Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-Flotillin 1 antibody. Counter stained with hematoxylin.



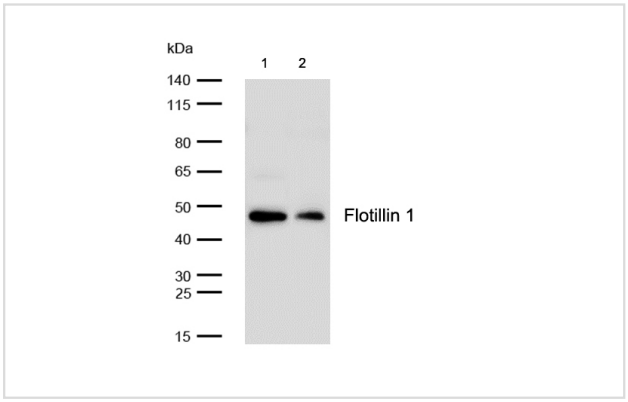
Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-Flotillin 1 antibody. Counter stained with hematoxylin.



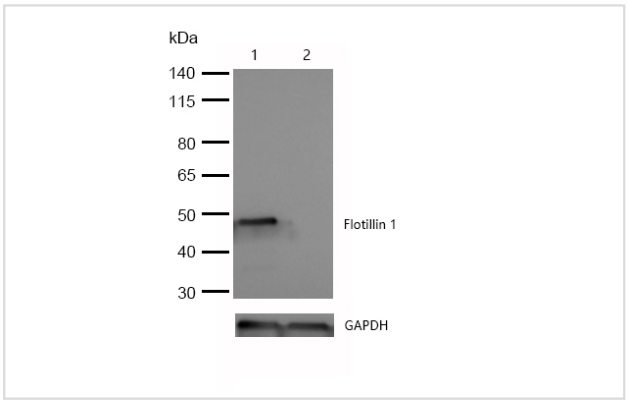
Flow cytometric analysis of HUVEC cells with Flotillin 1 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.



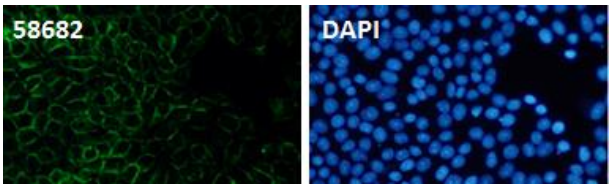
All lanes: Flotillin 1 Rabbit mAb at 1/1k dilutionLane 1 : Hela whole cell lysates Lane 2 : JK whole cell lysates Lane 3 : HepG2 whole cell lysates Lane 4 : MCF-7 whole cell lysates Lysates/proteins at 20 µg per lane.SecondaryAll lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilutionPredicted band size: 47 kDa Observed band size: 48 kDaExposure time: 5 seconds



All lanes: Flotillin 1 Rabbit mAb at 1/1k dilutionLane 1 : Mouse brain lysates Lane 2 : Rat brain lysates Lysates/proteins at 20 µg per lane.SecondaryAll lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilutionPredicted band size: 47 kDa Observed band size: 48 kDaExposure time: 7 seconds



All lanes:Flotillin 1 Rabbit mAb at 1/1k dilutionLane 1 : Wild-type Hela cell lysateLane 2 : Flotillin 1 knockdown Hela cell lysateLysates/proteins at 20 µg per lane.



Immunocytochemistry/ Immunofluorescence Flotillin 1 antibody (49861) ICC/IF staining of Flotillin 1 in Hela cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.

Samples were incubated with 49861 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 488 goat anti rabbit, used at a dilution of 1/500.

Nuclei were counterstained with DAPI.

Background

Lipid rafts are sphingolipid- and cholesterol-rich membrane microdomains that are insoluble in nonionic detergents. Lipid rafts are important for numerous cellular processes, including signal transduction, membrane trafficking and molecular sorting. Flotillins are lipid raft components in neurons and caveloae-associated proteins in A498 kidney cells. Flotillin-1 belongs to the band 7.2/stomatin protein family, whose members are characterized by the presence of a hydrophobic N-terminal region that is predicted to form a single, outside to inside, transmembrane domain. Flotillin-1 and -2 have complementary tissue distributions and their expression levels are independently regulated. At the cellular level, Flotillin-2 is ubiquitously expressed, whereas Flotillin-1 is expressed in A498 kidney cells, muscle cell lines and fibroblasts. Flotillins form a ternary complex with CAP and Cbl, directing the localization of the CAP-Cbl complex to a lipid raft subdomain of the plasma membrane. Association of ER-X with Flotillin localizes ER-X within plasma membrane caveloae and mediates rapid oestrogen activation of the MAP kinase cascade. The expression of the flotillins is also correlated to the progression of Alzhemier pathology.

References

1. Gorbea C et al. A protein interaction network for Ecm29 links the 26 S proteasome to molecular motors and endosomal components. J Biol Chem 285:31616-31633 (2010). 2. Chi A et al. Proteomic and bioinformatic characterization of the biogenesis and function of melanosomes. J Proteome Res 5:3135-3144 (2006).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.