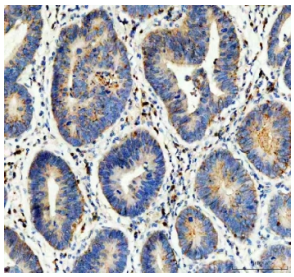
Flotillin 1 Antibody / Lipid Raft Marker Antibody (R31142)

Catalog No.	Formulation	Size
R31142	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

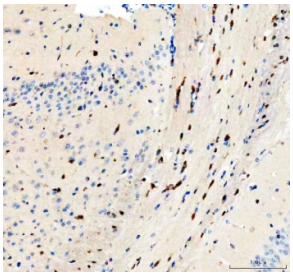
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	O75955
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry: 2-5ug/ml Immunoprecipitation: 2ug/500ug of lysate Immunofluorescence: 5ug/ml
Limitations	This Flotillin 1 Antibody / Lipid Raft Marker Antibody is available for research use only.



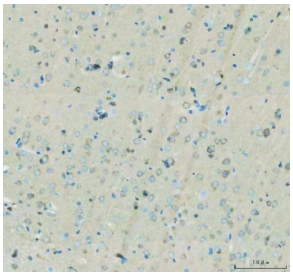
Flotillin 1 Antibody Human Stomach Cancer IHC. IHC staining of FFPE human stomach cancer tissue with Flotillin 1 Antibody. HIER was performed by boiling tissue sections in pH 8 EDTA buffer for 20 minutes, followed by cooling prior to staining. The section was incubated with Flotillin 1 antibody, followed by detection using HRP-secondary and DAB chromogen. Flotillin 1 Antibody / Lipid Raft Marker Antibody demonstrates membrane and cytoplasmic staining consistent with FLOT1 expression and supports studies of lipid raft organization, membrane microdomains and cell signaling pathways.



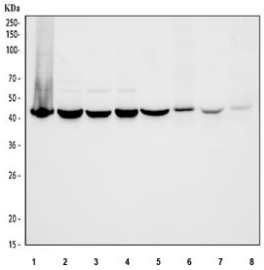
Flotillin 1 Antibody Mouse Brain IHC. IHC staining of FFPE mouse brain tissue with Flotillin 1 Antibody. HIER was performed by boiling tissue sections in pH 8 EDTA buffer for 20 minutes, followed by cooling prior to staining. The section was incubated with Flotillin 1 antibody, followed by detection using HRP-secondary and DAB chromogen. Flotillin 1 Antibody / Lipid Raft Marker Antibody demonstrates staining consistent with FLOT1 expression and supports studies of lipid raft organization, membrane microdomains, vesicle trafficking and neuronal cell biology pathways.



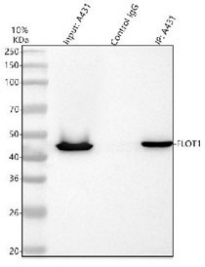
Flotillin 1 Antibody Mouse Neural Tissue IHC. IHC staining of FFPE mouse brain tissue with Flotillin 1 Antibody. HIER was performed by boiling tissue sections in pH 8 EDTA buffer for 20 minutes, followed by cooling prior to staining. The section was incubated with Flotillin 1 antibody, followed by detection using HRP-secondary and DAB chromogen. Flotillin 1 Antibody / Lipid Raft Marker Antibody demonstrates staining consistent with FLOT1 expression in neural tissue and supports studies of membrane microdomains, lipid raft biology and neuronal cell signaling regulation.



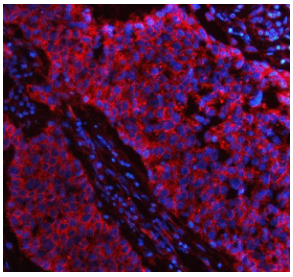
Flotillin 1 Antibody Rat Brain IHC. IHC staining of FFPE rat brain tissue with Flotillin 1 Antibody. HIER was performed by boiling tissue sections in pH 8 EDTA buffer for 20 minutes, followed by cooling prior to staining. The section was incubated with Flotillin 1 antibody, followed by detection using HRP-secondary and DAB chromogen. Flotillin 1 Antibody / Lipid Raft Marker Antibody demonstrates staining consistent with FLOT1 expression and supports studies of lipid raft organization, membrane-associated signaling and neuronal membrane biology.



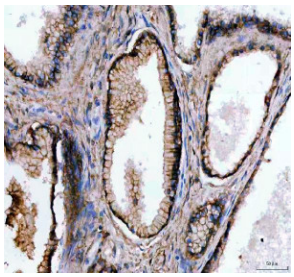
Flotillin 1 Antibody Multi-Species Tissue WB. Western blot testing of human A431, U-251, PC-3 and HaCaT cell lysates, along with rat and mouse tissue lysates, with Flotillin 1 Antibody. Lane 1: human A431; Lane 2: human U-251; Lane 3: human PC-3; Lane 4: human HaCaT; Lane 5: rat brain; Lane 6: rat skin; Lane 7: mouse brain; Lane 8: mouse skin. Expected molecular weight: ~49 kDa. Flotillin 1 Antibody / Lipid Raft Marker Antibody detects endogenous FLOT1 expression and supports studies of membrane microdomains, lipid raft organization and intracellular signaling pathways.



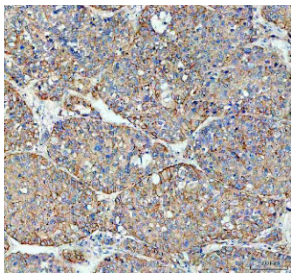
Flotillin 1 Antibody Human Cell IP. Immunoprecipitation of Flotillin 1 protein from 500 ug of human A431 whole cell lysate using 2 ug of Flotillin 1 Antibody. Immunoprecipitated protein was analyzed by Western blot, with input lysate and control IgG samples included for comparison. Flotillin 1 Antibody / Lipid Raft Marker Antibody successfully enriches endogenous FLOT1 protein and supports studies of lipid raft organization, membrane microdomains, vesicle trafficking and protein interaction analysis.



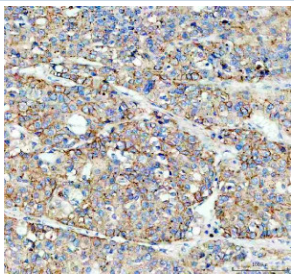
Flotillin 1 Antibody Human Lung Cancer IF. Immunofluorescent staining of FFPE human non-small cell lung cancer tissue with Flotillin 1 Antibody at 5 ug/ml. HIER was performed using pH 8 EDTA buffer, followed by blocking with 10% goat serum. The tissue section was incubated with rabbit anti-FLOT1 antibody overnight at 4Â°C, followed by Cy3 conjugated goat anti-rabbit IgG secondary antibody (red). Nuclei were counterstained with DAPI (blue). Flotillin 1 Antibody / Lipid Raft Marker Antibody demonstrates membrane and cytoplasmic staining consistent with FLOT1 expression and supports studies of membrane microdomains, lipid raft biology and cancer cell signaling pathways.



Flotillin 1 Antibody Human Thyroid Cancer IHC. IHC staining of FFPE human thyroid cancer tissue with Flotillin 1 Antibody at 2 ug/ml. HIER was performed using pH 8 EDTA buffer, followed by blocking with 10% goat serum. The tissue section was incubated with rabbit anti-FLOT1 antibody overnight at 4Â°C, followed by HRP-conjugated goat anti-rabbit IgG secondary antibody and DAB chromogen detection. Flotillin 1 Antibody / Lipid Raft Marker Antibody demonstrates membrane and cytoplasmic staining consistent with FLOT1 expression and supports studies of lipid raft organization, membrane microdomains and cell signaling pathways.



Flotillin 1 Antibody Human Liver Cancer IHC. IHC staining of FFPE human liver cancer tissue with Flotillin 1 Antibody at 2 ug/ml. HIER was performed using pH 8 EDTA buffer, followed by blocking with 10% goat serum. The tissue section was incubated with rabbit anti-FLOT1 antibody overnight at 4Â°C, followed by HRP-conjugated goat anti-rabbit IgG secondary antibody and DAB chromogen detection. Flotillin 1 Antibody / Lipid Raft Marker Antibody demonstrates membrane and cytoplasmic staining consistent with FLOT1 expression and supports studies of lipid raft organization, membrane microdomains, vesicle trafficking and cancer cell signaling pathways.



Flotillin 1 Antibody Human Liver Cancer IHC High Magnification. IHC staining of FFPE human liver cancer tissue with Flotillin 1 Antibody at 2 ug/ml. HIER was performed using pH 8 EDTA buffer, followed by blocking with 10% goat serum. The tissue section was incubated with rabbit anti-FLOT1 antibody overnight at 4Â°C, followed by HRP-conjugated goat anti-rabbit IgG secondary antibody and DAB chromogen detection. Flotillin 1 Antibody / Lipid Raft Marker Antibody demonstrates membrane and cytoplasmic staining consistent with FLOT1 expression and supports research into lipid raft organization, membrane-associated signaling and cancer cell biology pathways.

Description

Flotillin 1 Antibody / Lipid Raft Marker Antibody detects FLOT1, a membrane-associated scaffolding protein involved in lipid raft organization, membrane microdomain formation, vesicle trafficking and cell signaling regulation. Flotillin 1, also known as Reggie 2, is a member of the highly conserved flotillin protein family and contains an SPFH domain that supports membrane association and protein-protein interactions. Flotillin proteins are enriched in cholesterol-rich lipid raft regions of the plasma membrane, where they help organize signaling complexes and regulate communication between the cell surface and intracellular pathways. Because of its role in membrane architecture, Flotillin 1 is widely studied as a marker of lipid rafts and membrane-associated signaling platforms.

Flotillin 1 contributes to multiple cellular processes including endocytosis, receptor trafficking, cytoskeletal organization and signal transduction. Unlike classical caveolin-dependent structures, flotillin-associated membrane domains represent distinct microdomains involved in organizing receptors and regulatory proteins at the cell membrane. FLOT1 has been linked to pathways controlling cellular adhesion, migration and responses to extracellular signals. Flotillin 1 Antibody is commonly used to study membrane organization, lipid raft biology and the regulation of proteins involved in cellular communication and intracellular transport.

Research involving Flotillin 1 has expanded into areas including cancer biology, neuroscience, immune signaling and extracellular vesicle studies. Altered FLOT1 expression has been investigated in multiple tumor types due to its association with signaling pathway regulation, proliferation, invasion and metastasis-related processes. Flotillin 1 is also studied as a component of exosomes and other membrane-derived vesicles, providing insight into mechanisms of intercellular communication. Its connection to membrane trafficking and signaling makes Flotillin 1 Antibody an important tool for researchers investigating how changes in membrane organization influence cellular behavior.

Flotillin 1 Antibody applications include analysis of FLOT1 expression, localization and regulation in biological samples using techniques such as Western blot, immunohistochemistry, immunofluorescence and flow cytometry. Detection of

Flotillin 1 supports studies of lipid raft structure, membrane microdomains, vesicle transport and signaling networks that regulate normal and disease-associated cellular functions. NSJ Bioreagents provides Flotillin 1 Antibody / Lipid Raft Marker Antibody for researchers studying membrane biology, intracellular trafficking and cell signaling pathways.

Flotillin 1 Antibody detects a lipid raft-associated membrane scaffold protein involved in membrane organization, endocytosis and vesicle trafficking, making it a useful marker for research areas featured in our Cell Biology Antibodies page.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Flotillin 1 Antibody / Lipid Raft Marker Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the middle region of human FLOT1 (KKAAYDIEVNTRRAQA) was used as the immunogen for this Flotillin 1 antibody.

Storage

After reconstitution, the Flotillin 1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

FLOT1 Antibody, Reggie 2 Antibody, Flotillin-1 Antibody, Flotillin 1 Lipid Raft Protein Antibody, Membrane Microdomain Protein Antibody, Caveolae Associated Protein Antibody

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