

# Anti-Flotillin 1 Antibody [JB19-45]

ET7107-82



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IHC-P, FC
<b>Molecular Wt:</b>	Predicted band size: 47 kDa
<b>Clone number:</b>	JB19-45

**Description:** 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 caveolae-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 caveolae and mediates rapid oestrogen activation of the MAP kinase cascade. The expression of the flotillins is also correlated to the progression of Alzheimer pathology.

**Immunogen:** Synthetic peptide within Human Flotillin 1 aa 378-427 / 427.

**Positive control:** Neuro-2a cell lysate, mouse brain tissue lysate, mouse kidney tissue lysate, mouse lung tissue lysate, PC-3M cell lysates, rat brain tissue, human lung cancer tissue, human liver tissue, human spleen tissue, HUVEC.

**Subcellular location:** Cell membrane. Endosome.

**Database links:** SwissProt: O75955 Human | O08917 Mouse | Q9Z1E1 Rat

**Recommended Dilutions:**

<b>WB</b>	1:500-1:1,000
<b>IHC-P</b>	1:50-1:100
<b>FC</b>	1:50-1:100

**Storage Buffer:** 1\*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

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Orders:0086-571-88062880

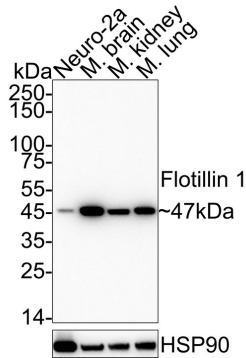
Technical:0086-571-89986345

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## Images

**Fig1:** Western blot analysis of Flotillin 1 on different lysates with Rabbit anti-Flotillin 1 antibody (ET7107-82) at 1/1,000 dilution.



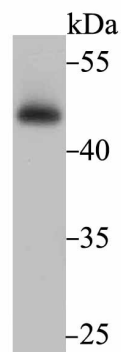
Lane 1: Neuro-2a cell lysate (20  $\mu$ g/Lane)  
 Lane 2: Mouse brain tissue lysate (40  $\mu$ g/Lane)  
 Lane 3: Mouse kidney tissue lysate (40  $\mu$ g/Lane)  
 Lane 4: Mouse lung tissue lysate (40  $\mu$ g/Lane)

Predicted band size: 47 kDa  
 Observed band size: 47 kDa

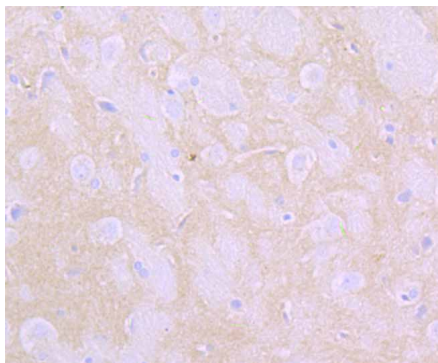
Exposure time: 59 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET7107-82) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.



**Fig2:** Western blot analysis of Flotillin 1 on PC-3M cell lysate using anti-Flotillin 1 antibody at 1/500 dilution.



**Fig3:** Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-Flotillin 1 antibody. Counter stained with hematoxylin.

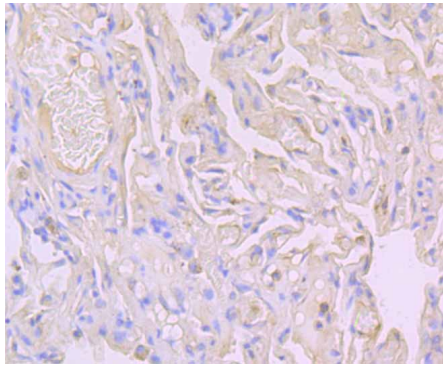
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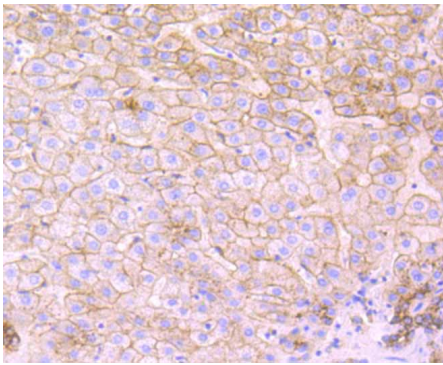
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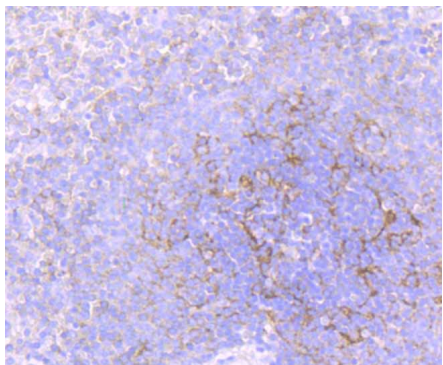
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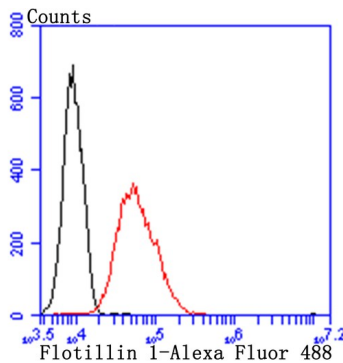
**Fig4:** Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-Flotillin 1 antibody. Counter stained with hematoxylin.



**Fig5:** Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-Flotillin 1 antibody. Counter stained with hematoxylin.



**Fig6:** Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-Flotillin 1 antibody. Counter stained with hematoxylin.



**Fig7:** 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.

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**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

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### Background 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).

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