

Datasheet for ABIN968195

anti-Flotillin 1 antibody (AA 312-428)**2** Images**5** Publications[Go to Product page](#)

Overview

Quantity:	150 µg
Target:	Flotillin 1 (FLOT1)
Binding Specificity:	AA 312-428
Reactivity:	Human, Mouse, Rat, Chicken
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Mouse Flotillin aa. 312-428
Clone:	18-Flotillin
Isotype:	IgG1
Cross-Reactivity:	Rat (Rattus), Chicken, Human
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us for technical protocols.3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	Flotillin 1 (FLOT1)
Alternative Name:	Flotillin-1 (FLOT1 Products)
Background:	<p>Caveolae are specialized membrane invaginations of 50-100 nm present in all cells, but abundant in endothelium, muscle cells, and adipocytes. These plasma membrane microdomains function in transcytosis of macromolecules, and are the sites of potocytosis, where small molecules are concentrated and transferred inside the cells by glycosylphosphatidylinositol (GPI)-linked receptors. Caveolin, a 22kDa protein and a well known marker for these plasma membrane microdomains, plays a structural role in these specializations. Flotillin-1 was isolated from the Triton X-100 insoluble buoyant fraction, characteristic of caveolae. Although the mRNA expression of both Flotillin-1 and Caveolin is very similar, Caveolin is undetectable in brain, while Flotillin-1 is very abundant. Flotillin-1 is a close homolog of the Epidermal Surface Antigen (ESA/Flotillin-2), which also colocalizes in the caveolae. Thus, Flotillin-1 and its relative ESA/Flotillin-2 are now incorporated into the expanding list of proteins co-localized at the caveolae which includes PKCalpha, Ras, Rap Src-like kinases, Galphab3gamma, and GPI-linked receptors. This antibody is routinely tested by western blot analysis.</p>
Molecular Weight:	48 kDa

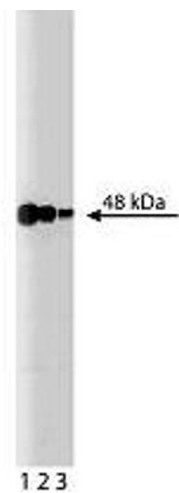
Application Details

Comment:	Related Products: ABIN968545
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

- Product cited in: Cabin, Shimazu, Murphy, Cole, Gottschalk, McIlwain, Orrison, Chen, Ellis, Paylor, Lu, Nussbaum: "Synaptic vesicle depletion correlates with attenuated synaptic responses to prolonged repetitive stimulation in mice lacking alpha-synuclein." in: **The Journal of neuroscience : the official journal of the Society for Neuroscience**, Vol. 22, Issue 20, pp. 8797-807, (2002) ([PubMed](#)).
- Fallon, Moreau, Croft, Labib, Gu, Fon: "Parkin and CASK/LIN-2 associate via a PDZ-mediated interaction and are co-localized in lipid rafts and postsynaptic densities in brain." in: **The Journal of biological chemistry**, Vol. 277, Issue 1, pp. 486-91, (2002) ([PubMed](#)).
- Morrow, Rea, Martin, Prior, Prohaska, Hancock, James, Parton: "Flotillin-1/reggie-2 traffics to surface raft domains via a novel golgi-independent pathway. Identification of a novel membrane targeting domain and a role for palmitoylation." in: **The Journal of biological chemistry**, Vol. 277, Issue 50, pp. 48834-41, (2002) ([PubMed](#)).
- Rybin, Xu, Lisanti, Steinberg: "Differential targeting of beta -adrenergic receptor subtypes and adenylyl cyclase to cardiomyocyte caveolae. A mechanism to functionally regulate the cAMP signaling pathway." in: **The Journal of biological chemistry**, Vol. 275, Issue 52, pp. 41447-57, (2001) ([PubMed](#)).
- Bickel, Scherer, Schnitzer, Oh, Lisanti, Lodish: "Flotillin and epidermal surface antigen define a new family of caveolae-associated integral membrane proteins." in: **The Journal of biological chemistry**, Vol. 272, Issue 21, pp. 13793-802, (1997) ([PubMed](#)).



Western Blotting

Image 1. Western blot analysis of flotillin-1 on rat brain lysate. Lane 1: 1:250, Lane 2: 1:500, Lane 3: 1:1000 dilution of flotillin-1.

Image 2.

