Flotillin-2 (B-6): sc-28320

**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 caveolae-associated proteins in A498 kidney cells. Flotillin-2, also designated epidermal surface antigen, is conserved in all mammalian species. Flotillin-1 and -2 have complementary tissue distributions and the 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. Stable transfection of a Flotillin-2 fusion protein in COS cells induces filopodia formation and changes epithelial cells to a neuronal appearance. 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 estrogen activation of the MAP kinase cascade. The expression of the flotillins is also correlated to the progression of Alzheimer pathology.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: FLOT2 (human) mapping to 17q11.2; Flot2 (mouse) mapping to 11 B5.

**SOURCE**

Flotillin-2 (B-6) is a mouse monoclonal antibody raised against amino acids 151-240 of Flotillin-2 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Flotillin-2 (B-6) is available conjugated to agarose (sc-28320 AC), 500 µg/0.25 ml agarose in 1 ml of PBS, to HRP (sc-28320 HRP), 200 µg/ml, for WB, IHC/IP and ELISA; to either phycoerythrin (sc-28320 PE), fluorescein (sc-28320 FITC), Alexa Fluor® 488 (sc-28320 AF488), Alexa Fluor® 546 (sc-28320 AF546), Alexa Fluor® 594 (sc-28320 AF594) or Alexa Fluor® 647 (sc-28320 AF647), 200 µg/ml, for WB (RGB), IF, IHC/IP and FC; and to either Alexa Fluor® 680 (sc-28320 AF680) or Alexa Fluor® 790 (sc-28320 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FC.

**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**APPLICATIONS**

Flotillin-2 (B-6) is recommended for detection of Flotillin-2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1,000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).


Molecular Weight of Flotillin-2: 42 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, WI-38 whole cell lysate: sc-364260 or AMJ2-C8 whole cell lysate: sc-364366.

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

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