

#3253 Store at -20°C

Flotillin-1 Antibody



100 µl
(10 western blots)

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rev. 06/23/11

This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W Endogenous	H, M, R, Mk	49 kDa	Rabbit**

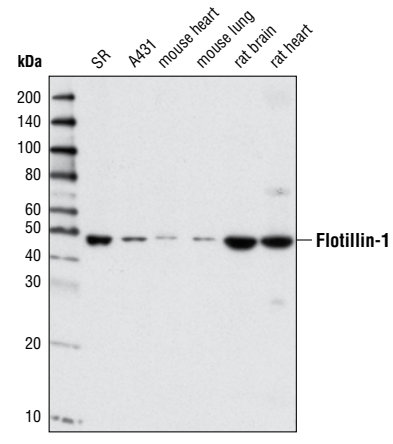
Background: Flotillins belong to a family of lipid raft-associated integral membrane proteins that carry an evolutionarily conserved domain called the prohibitin homology domain (PHB) (1). Flotillin members are ubiquitously expressed and located to non-caveolar microdomains (lipid rafts) on the cell plasma membrane where they support signal transduction and regulate lipid raft motility and localization (2-5). Two flotillin members have been described, Flotillin-1 and Flotillin-2. In addition to their colocalization with lipid rafts on the plasma membrane, Flotillin-1 also has been found at compartments of the endocytic and autophagosomal pathways, such as recycling/late endosomes, the Golgi complex, as well as the nucleus (6,7). Flotillin-2 is mainly localized to the plasma membrane and prevalent in cell-cell contact sites, however, overexpressed Flotillin-2 has also been found in the late endosome (4,8,9). Both flotillin-1 and flotillin-2 are commonly used as lipid raft associated markers.

Specificity/Sensitivity: Flotillin-1 Antibody detects endogenous levels of total flotillin-1 protein.

Source/Purification: Polyclonal antibodies are produced by immunizing rabbits with a synthetic peptide (KLH-coupled) corresponding residue surrounding Ile368 of human flotillin-1. Antibodies are purified by peptide affinity chromatography.

Background References:

- (1) Morrow, I.C. and Parton, R.G. (2005) *Traffic* 6, 725-40.
- (2) Langhorst, M.F. et al. (2005) *Cell Mol Life Sci* 62, 2228-40.
- (3) Stuermer, C.A. and Plattner, H. (2005) *Biochem Soc Symp*, 109-18.
- (4) Fernow, I. et al. (2007) *Eur J Cell Biol* 86, 345-52.
- (5) Neumann-Giesen, C. et al. (2007) *J Cell Sci* 120, 395-406.
- (6) Liu, J. et al. (2005) *J Biol Chem* 280, 16125-34.
- (7) Santamaría, A. et al. (2005) *Mol Cell Biol* 25, 1900-11.
- (8) Solomon, S. et al. (2002) *Immunobiology* 205, 108-19.
- (9) Neumann-Giesen, C. et al. (2004) *Biochem J* 378, 509-18.



Western blot analysis of extracts from various cell lines and tissues using Flotillin-1 Antibody.

Entrez-Gene ID #10211
Swiss-Prot Acc. #O75955

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting 1:1000

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

IMPORTANT: For Western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

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Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
 Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.