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#3253

Flotillin-1 Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source/Isotype: | UniProt ID: | Entrez-Gene Id: |
|---------------|-------------|--------------|-----------|-----------------|-------------|-----------------|
| W | H M R Mk | Endogenous | 49 | Rabbit | #O75955 | 10211 |

Product Usage Information

Application

Western Blotting

Dilution

1:1000

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.

Specificity/Sensitivity

Flotillin-1 Antibody detects endogenous levels of total flotillin-1 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding residue surrounding Ile368 of human flotillin-1. Antibodies are purified by peptide affinity chromatography.

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 in noncaveolar microdomains (lipid rafts) on the 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 its colocalization with lipid rafts on the plasma membrane, flotillin-1 also has been found in compartments of the endocytic and autophagosomal pathways, such as recycling/late endosomes, the Golgi complex, and the nucleus (6,7). Flotillin-2 is mainly localized to the plasma membrane and is 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.

Background References

- Morrow, I.C. and Parton, R.G. (2005) *Traffic* 6, 725-40.
- Langhorst, M.F. et al. (2005) *Cell Mol Life Sci* 62, 2228-40.
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- Fernow, I. et al. (2007) *Eur J Cell Biol* 86, 345-52.
- Neumann-Giesen, C. et al. (2007) *J Cell Sci* 120, 395-406.
- Liu, J. et al. (2005) *J Biol Chem* 280, 16125-34.
- Santamaría, A. et al. (2005) *Mol Cell Biol* 25, 1900-11.
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Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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