

Phone: 888-466-3604 Fax: 925-215-2184 Email: boster@bosterbio.com Web: www.bosterbio.com

Anti-Flotillin 2/FLOT2 Antibody

Catalog Number: PA2034

Description

Gene Name	Flotillin-2
Protein Name	Flotillin-2
Size	100µg/vial
Form	Lyophilized
Ig Type	
Purification	Immunogen affinity purified.
Species	Rat, Mouse, Human
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Flotillin 2(117-131aa TLTVEQIYQDRDQFA), identical to the related rat and mouse sequences.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
Clonality	Polyclonal

Applications

Concentration	Tested Species	Predicted Species
Western blot, 0.1-0.5µg/ml, Human, Rat, Mouse		

WB: The detection limit for FLOT2 is approximately 1ng/lane under reducing conditions.

Tested Species: In-house tested species with positive results.

Predicted Species: Species predicted to be fit for the product based on sequence similarities.

Other applications have not been tested.

Optimal dilutions should be determined by end users.

Preparation and storage

Reconstitution:	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Storage:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Relevant detection systems

Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.

Background

FLOT2(Flotillin 2), also known as ESA1 or M17S1, is a protein that in humans is encoded by the FLOT2 gene. Schroeder et al.(1991) isolated a cDNA for an epidermal surface antigen believed to be involved in epidermal cell adhesion. By analysis of a somatic cell hybrid panel and in situ hybridization using the ESA cDNA, the gene was mapped to 17q11-q12 in the region containing the NF1 gene. Bickel et al.(1997) found that mouse Flot2 consistently copurifies with Flot1 and with caveolin-1 in the purification of caveolin-rich membranes. Using a quantitative proteomic analysis of cultured mouse neuronal stem cells, Li et al.(2012) found that palmitoylation and oligomerization of flotillin-2 was abolished in homozygous Dhhc5 mutant neuronal stem cells. The absolute amount of flotillin-2 was not changed in Dhhc5 mutant neurons.