Technical Data Sheet

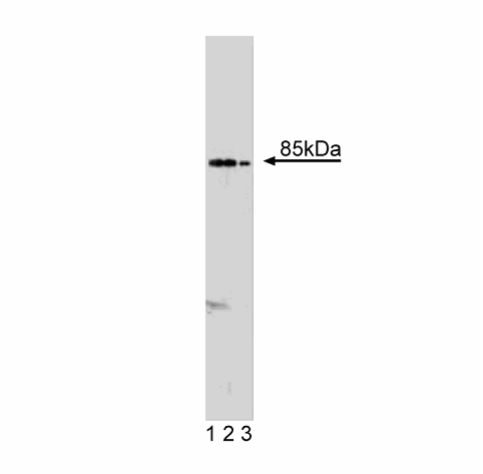
Purified Mouse Anti-FLAP

Product Information

Material Number:	**611156**
Size:	50 µg
Concentration:	250 µg/ml
Clone:	34/FLAP
Immunogen:	Mouse FLAP aa. 516-622
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Mouse Tested in Development: Rat, Human
Target MW:	85 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Gelsolin, an actin binding protein, regulates the actin cytoskeleton. Flightless I (fliI), a member of the gelsolin family, was discovered as a mutation in *Drosophila* that results in flightlessness and, in some cases, lethality. FliI is required for actin organization during myogenesis and embryogenesis. It contains characteristic gelsolin 6-fold segmental repeats and an N-terminal extension of 16 tandem leucine-rich repeats (LRR), which are involved in protein-protein interactions. The human flightless I (FLI) locus lies in a chromosomal region that is deleted in Smith-Magenis syndrome. The C-terminal region of FLI is 31% identical and 52% similar to human gelsolin. An attempt to detect an interaction between FLI and actin resulted in the discovery of FLI LRR Associated Protein (FLAP). FLAP is rich in α-helices and consists of central and C-terminal segments of dimeric coiled coils that are thought to mediate its interaction with FLI LRR. Therefore, FLAP appears to be part of the membrane cytoskeleton and serves as a binding ligand for LRR. This interaction implicates FLI as a linkage between the cytoskeleton and an unidentified intracellular structure.



Western blot analysis of FLAP on a RSV-3T3 cell lysate. *Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the mouse anti-FLAP antibody.*

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at -20°C.

Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Not Recommended

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

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Suggested Companion Products

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols 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.

References

Liu YT, Yin HL. Identification of the binding partners for flightless I, A novel protein bridging the leucine-rich repeat and the gelsolin superfamilies. *J Biol Chem.* 1998; 273(14):7920-7927.(Biology)