Technical Data Sheet

Purified Mouse Anti-FLAP

Product Information

611156 **Material Number:** 50 μg **Concentration:** $250 \mu g/ml$ 34/FLAP Clone:

Immunogen: Mouse FLAP aa. 516-622

Mouse IgG1 Isotype: QC Testing: Mouse Reactivity:

Tested in Development: Rat, Human

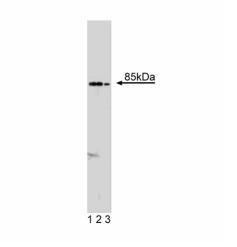
Target MW:

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 (flil), 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

4.	ncation		
	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.
- 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)

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