

Product Information

Anti-Filamin antibody, Mouse monoclonal
clone PM6/317, purified from hybridoma cell culture

Catalog Number **F6682**

Product Description

Monoclonal Anti-Filamin (mouse IgG1 isotype) is derived from the hybridoma PM6/317 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with human platelet membranes. The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents, Catalog Number ISO2. The antibody is purified from the culture supernatant of hybridoma cells grown in a bioreactor.

Monoclonal Anti-Filamin recognizes full length (270-280 kDa), as well as the N-terminal calpain cleavage fragment (190 kDa), of human filamin (GeneID: 2316). Species recognition includes monkey, hamster, bovine, and canine filamin. The antibody may be used in several immunological techniques including immunoblotting and immunofluorescence.

Filamin, also called actin-binding protein, is a structural protein that forms flexible cross-links between two actin filaments and links actin filaments to membrane glycoproteins. Filamin is a homodimer of polypeptide chains each joined to the other at one end with an actin binding site. It is present in smooth muscle, fibroblasts, platelets and lymphocytes. Filamin is involved in remodeling the cytoskeleton to effect changes in cell shape and migration. This protein interacts with integrins, transmembrane receptor complexes, and second messengers. Defects in the filamin gene are a cause of several syndromes, including periventricular nodular heterotopias (PVNH1, PVNH4), otopalatodigital syndromes (OPD1, OPD2), frontometaphyseal dysplasia (FMD), Melnick-Needles syndrome (MNS), and X-linked congenital idiopathic intestinal pseudoobstruction (CIIPX).¹⁻⁶

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

Antibody concentration: ~ 1.0 mg/mL

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses.

Storage/Stability

Store at -20 °C. For continuous use, the product may be stored at 2-8 °C for up to one month. For extended storage, freeze at -20 °C in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

Immunoblotting: a working antibody concentration of 0.5-1.0 µg/mL is recommended using a whole extract of human Jurkat or HEK-293T cells.

Note: In order to obtain the best results using various techniques and preparations, we recommend determining optimal working dilutions by titration.

References

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