

## Monoclonal Antibody to Filamin (250 kDa) - Purified

<b>Alternate names:</b>	FLNA, FN1, FN2, FN3, FNLB, FNLC
<b>Catalog No.:</b>	BM426P
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.1 mg/ml
<b>Background:</b>	<p>Filamins are a family of dimeric actin binding proteins that function as structural components of cell adhesion sites. They also serve as a scaffold for subcellular targeting of signaling molecules. The actin binding domain (alpha-actinin domain) is located at the very amino-terminus, followed by as many as 24 tandem repeats of about 96 residues, and the dimerization domain is located at the carboxy-terminal end of the protein. In addition to actin filaments, filamins associate with other structural and signaling molecules such as beta-integrins, Rho/Rac/Cdc42, PKC, and insulin receptor, primarily through their carboxy-terminal half.</p> <p>Filamin functions as a crosslinking protein forming a flexible link between two actin filaments. It is composed of two identical polypeptide chains each joined to the other at one end, with an actin binding site at the other. It is present in human platelets, lymphocytes, fibroblasts and smooth muscle actin.</p> <p>Filamin A, the most abundant, and filamin B, less abundant, are widely expressed isoforms, while filamin C is predominantly expressed in muscle. Serine 2152 of filamin A is phosphorylated by PAK1, and this phosphorylation is required for PAK1-mediated actin cytoskeleton reorganization.</p>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Recommended Isotype Controls:</b>	SM10P (for use in human samples), SM20P (for use in rat samples), AM03095PU-N
<b>Clone:</b>	PM6/317
<b>Immunogen:</b>	Platelet Filamin. Source: Tissue culture supernatant.
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction <b>Purification:</b> Protein A Chromatography <b>Buffer System:</b> PBS containing 10mM Sodium Azide and 1mg/ml BSA
<b>Applications:</b>	<b>Western Blot.</b> <b>Immunohistochemistry on Formalin Fixed Paraffin Sections.</b> Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	Recognizes the Filamin band (250kDa) from platelets, lymphocytes, fibroblasts and smooth muscle.
<b>Species Reactivity:</b>	<b>Tested:</b> Human, Rabbit, Guinea Pig, Chicken and Rat.

**Storage:** Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.  
Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.

**General Readings:** 1. Umeda T, Kouchi Z, Kawahara H, Tomioka S, Sasagawa N, Maeda T, et al. Limited proteolysis of filamin is catalyzed by caspase-3 in U937 and Jurkat cells. J Biochem. 2001 Oct;130(4):535-42. PubMed PMID: 11574073.