10320 Camino Santa Fe, Suite G
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# Anti-Filamin B/FLNB Antibody Picoband™ (monoclonal, 11E2D2)

**Catalog # ABO15118**

## Specification

### Anti-Filamin B/FLNB Antibody Picoband™ (monoclonal, 11E2D2) - Product Information

| | |
|---|---|
| Application | **WB, IHC, IF, ICC** |
| Primary Accession | O75369 |
| Host | **Mouse** |
| Isotype | **Mouse IgG1** |
| Reactivity | **Human** |
| Clonality | **Monoclonal** |
| Format | **Lyophilized** |

**Description**
Anti-Filamin B/FLNB Antibody Picoband™ (monoclonal, 11E2D2) . Tested in IF, IHC, ICC, WB applications. This antibody reacts with Human.

**Reconstitution**
Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.

### Anti-Filamin B/FLNB Antibody Picoband™ (monoclonal, 11E2D2) - Additional Information

**Gene ID** 2317

**Other Names**
Filamin-B, FLN-B, ABP-278, ABP-280 homolog, Actin-binding-like protein, Beta-filamin, Filamin homolog 1, Fh1, Filamin-3, Thyroid autoantigen, Truncated actin-binding protein, Truncated ABP, FLNB, FLN1L, FLN3, TABP, TAP

**Calculated MW**
278 kDa KDa

**Application Details**
Western blot, 0.25-0.5 µg/ml, Human<br> Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/ml, Human<br> Immunocytochemistry/Immunofluorescence, 5 µg/ml, Human<br>

**Contents**
Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.

**Immunogen**
E.coli-derived human Filamin B/FLNB recombinant protein (Position: Q397-D701).

**Purification**
Immunogen affinity purified.

| | |
|---|---|
| Storage | **At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.** |

## Anti-Filamin B/FLNB Antibody Picoband™ (monoclonal, 11E2D2) - Protein Information

**Name** FLNB

**Synonyms** FLN1L, FLN3, TABP, TAP

**Function**
Connects cell membrane constituents to the actin cytoskeleton. May promote orthogonal branching of actin filaments and links actin filaments to membrane glycoproteins. Anchors various transmembrane proteins to the actin cytoskeleton. Interaction with FLNA may allow neuroblast migration from the ventricular zone into the cortical plate. Various interactions and localizations of isoforms affect myotube morphology and myogenesis. Isoform 6 accelerates muscle differentiation in vitro.

**Cellular Location**
[Isoform 1]: Cytoplasm, cell cortex. Cytoplasm, cytoskeleton. Cytoplasm, cytoskeleton, stress fiber. Cytoplasm, myofibril, sarcomere, Z line. Note=In differentiating myotubes, isoform 1, isoform 2 and isoform 3 are localized diffusely throughout the cytoplasm with regions of enrichment at the longitudinal actin stress fiber. In differentiated tubes, isoform 1 is also detected within the Z-lines [Isoform 3]: Cytoplasm, cytoskeleton, stress fiber

**Tissue Location**
Ubiquitous. Isoform 1 and isoform 2 are expressed in placenta, bone marrow, brain, umbilical vein endothelial cells (HUVEC), retina and skeletal muscle. Isoform 1 is predominantly expressed in prostate, uterus, liver, thyroid, stomach, lymph node, small intestine, spleen, skeletal muscle, kidney, placenta, pancreas, heart, lung, platelets, endothelial cells, megakaryocytic and erythroleukemic cell lines. Isoform 2 is predominantly expressed in spinal cord, platelet and Daudi cells. Also expressed in thyroid adenoma, neurofibrillary tangles (NFT), senile plaques in the hippocampus and cerebral cortex in Alzheimer disease (AD). Isoform 3 and isoform 6 are expressed predominantly in lung, heart, skeletal muscle, testis, spleen, thymus and leukocytes. Isoform 4 and isoform 5 are expressed in heart.

## Anti-Filamin B/FLNB Antibody Picoband™ (monoclonal, 11E2D2) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## Anti-Filamin B/FLNB Antibody Picoband™ (monoclonal, 11E2D2) - Images

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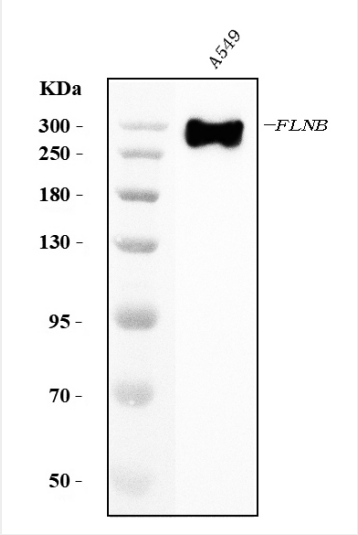


Figure 1. Western blot analysis of Filamin B/FLNB using anti-Filamin B/FLNB antibody (M02562-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human A549 whole cell lysates.
After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-Filamin B/FLNB antigen affinity purified monoclonal antibody (Catalog # M02562-1) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system. A specific band was detected for Filamin B/FLNB at approximately 278 kDa. The expected band size for Filamin B/FLNB is at 278 kDa.

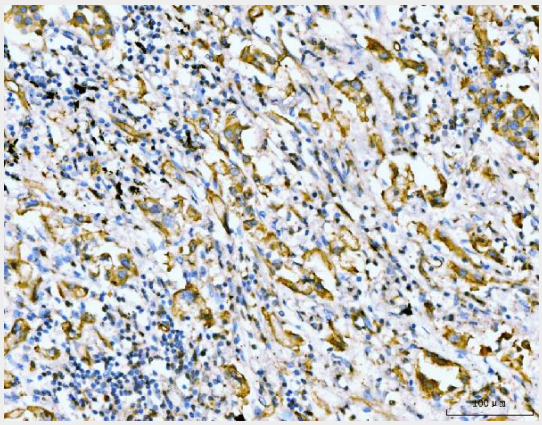

Figure 2. IHC analysis of Filamin B/FLNB using anti-Filamin B/FLNB antibody (M02562-1).
Filamin B/FLNB was detected in a paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 µg/ml mouse anti-Filamin B/FLNB Antibody (M02562-1) overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.

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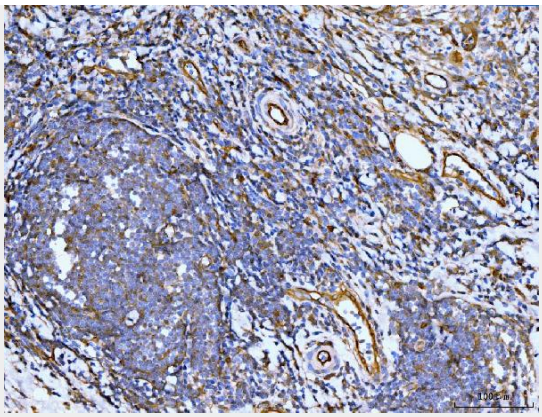

Figure 3. IHC analysis of Filamin B/FLNB using anti-Filamin B/FLNB antibody (M02562-1).
Filamin B/FLNB was detected in a paraffin-embedded section of human lymph node of rectal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 µg/ml mouse anti-Filamin B/FLNB Antibody (M02562-1) overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.

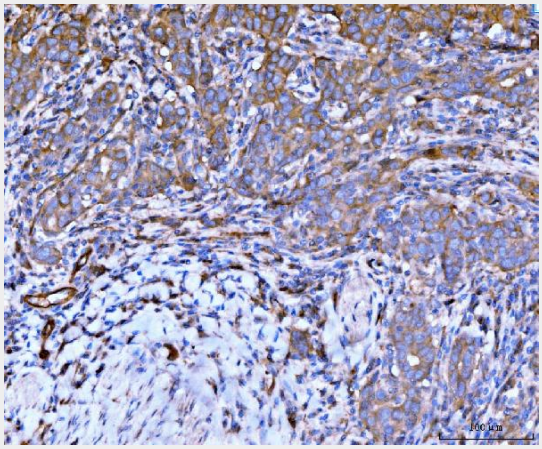

Figure 4. IHC analysis of Filamin B/FLNB using anti-Filamin B/FLNB antibody (M02562-1).
Filamin B/FLNB was detected in a paraffin-embedded section of human metaplasia of squamous cells of the renal pelvis tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 µg/ml mouse anti-Filamin B/FLNB Antibody (M02562-1) overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.

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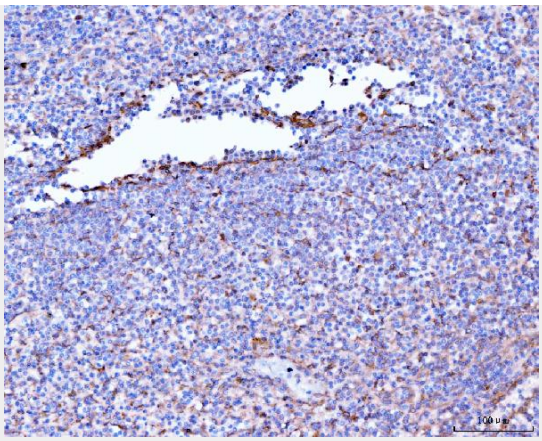

Figure 5. IHC analysis of Filamin B/FLNB using anti-Filamin B/FLNB antibody (M02562-1).
Filamin B/FLNB was detected in a paraffin-embedded section of human spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 µg/ml mouse anti-Filamin B/FLNB Antibody (M02562-1) overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.

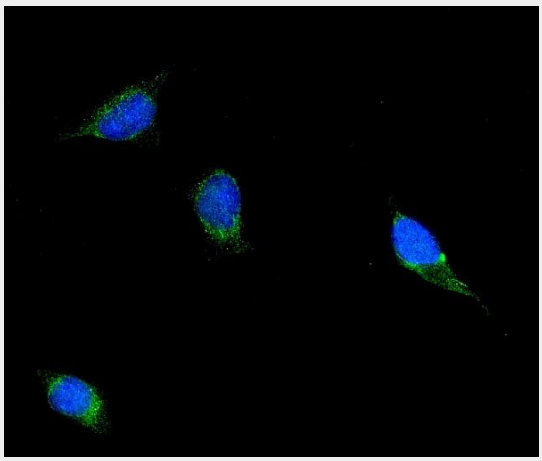

Figure 6. IF analysis of Filamin B/FLNB using anti-Filamin B/FLNB antibody (M02562-1).
Filamin B/FLNB was detected in an immunocytochemical section of Hela cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 µg/mL mouse anti-Filamin B/FLNB Antibody (M02562-1) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Mouse IgG (BA1126) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

**Anti-Filamin B/FLNB Antibody Picoband™ (monoclonal, 11E2D2) - Background**

Filamin B, beta (FLNB), also known as Filamin B, beta (truncated actin binding protein 278 homolog), is a cytoplasmic protein which in humans is encoded by the FLNB gene. This gene encodes a member of the filamin family. The encoded protein interacts with glycoprotein Ib alpha as part of the process to repair vascular injuries. The platelet glycoprotein Ib complex includes glycoprotein Ib alpha, and it binds the actin cytoskeleton. Mutations in this gene have been found in several conditions: atelosteogenesis type 1 and type 3; boomerang dysplasia; autosomal dominant Larsen syndrome; and spondylocarpotarsal synostosis syndrome. Multiple alternatively spliced transcript variants that encode different protein isoforms have been described for this gene.