

Anti-MFAP3L Antibody Picoband®

Catalog Number: A12581

About MFAP3L

Microfibrillar-Associated Protein 3-Like (MFAP3L), also known as NYD-sp9, is part of the microfibrillar-associated protein family (MFAPs). MFAPs are non- α -fibrillin, extracellular matrix glycoproteins that interact with fibrillin and were originally characterized in microfibrillar assembly. In humans, there several subfamily members with varying amino acid (aa) sequence homology and functions. Among the family, MFAP2 and MFAP5 are more closely related and while MFAP1, 3 and 4 share no structural or sequence homology with MFAP2, MFAP5 or with each other. Human MFAP3L shows 71% amino acid (aa) sequence homology to MFAP3, but not other MFAPs. Mature, human MFAP3L consists of an extracellular domain (ECD) containing N-linked glycosylation sites, a transmembrane domain, and a cytoplasmic domain with a conserved SH2 motif. The ECD of human MFAP3L shares 89% and 90% aa sequence identity with mouse and rat MFAP3L, respectively. MFAPs have the unique ability to interact with TGF-beta family growth factors, Notch and Notch ligands and multiple elastic fiber proteins, in addition to interacting with fibrillin. MFAPs are expressed in a wide variety of tissues and, along with microfibril assembly, they play roles in the regulation of tissue homeostasis, cell survival, and tumor progression. MFAP3L is often located within colorectal cancer (CRC) cells, which metastasize by activation of the nuclear ERK pathway via MFAP3L phosphorylation. Regulation of this MFAP3L activity could have pharmaceutical effects on CRC tumor progression.

Overview

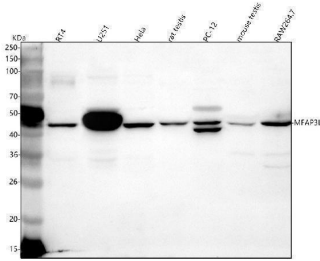
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| Product Name | Anti-MFAP3L Antibody Picoband® |
| Reactive Species | Human, Mouse, Rat |
| Description | Boster Bio Anti-MFAP3L Antibody Picoband® catalog # A12581. Tested in WB, ICC/IF, ELISA applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Application | ELISA, IF, ICC, WB |
| Clonality | Polyclonal |
| Formulation | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ . |
| Storage Instructions | 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. |
| Host | Rabbit |
| Uniprot ID | O75121 |

Technical Details

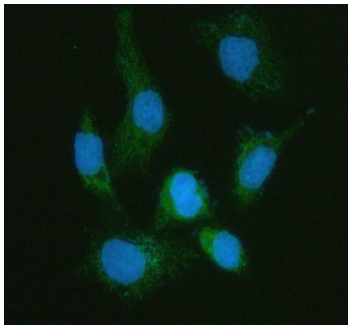
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|-------------------------------|---|
| Immunogen | E.coli-derived human MFAP3L recombinant protein (Position: K29-V409). Human MFAP3L shares 90.6% amino acid (aa) sequence identity with both mouse and rat MFAP3L. |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western |

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| | blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for ICC. |
| Form | Lyophilized |
| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml. |
| Purification | Immunogen affinity purified. |
| Suggested Dilutions | Western blot, 0.25-0.5 µg/ml, Human, Mouse, Rat Immunocytochemistry/Immunofluorescence, 5 µg/ml, Human ELISA, 0.1-0.5 µg/ml, - |

Anti-MFAP3L Antibody Picoband® (A12581) Images



Western blot analysis of MFAP3L using anti-MFAP3L antibody (A12581). 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 RT4 whole cell lysates, Lane 2: human U251 whole cell lysates, Lane 3: human Hela whole cell lysates, Lane 4: rat testis tissue lysates, Lane 5: rat PC-12 whole cell lysates, Lane 6: mouse testis tissue lysates, Lane 7: mouse RAW264.7 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 rabbit anti-MFAP3L antigen affinity purified polyclonal antibody (Catalog # A12581) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for MFAP3L at approximately 45 kDa. The expected band size for MFAP3L is at 45 kDa.



IF analysis of MFAP3L using anti-MFAP3L antibody (A12581). MFAP3L 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 ug/mL rabbit anti-MFAP3L Antibody (A12581) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:500 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.

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Anti-MFAP3L Antibody

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