

Anti-Talin 1/TLN1 Antibody Picoband™ (monoclonal, 2G10D2)

Catalog Number: M02859

About TLN1

Talin-1 is a protein that in humans is encoded by the TLN1 gene. This gene encodes a cytoskeletal protein that is concentrated in areas of cell-substratum and cell-cell contacts. The encoded protein plays a significant role in the assembly of actin filaments and in spreading and migration of various cell types, including fibroblasts and osteoclasts. It codistributes with integrins in the cell surface membrane in order to assist in the attachment of adherent cells to extracellular matrices and of lymphocytes to other cells. The N-terminus of this protein contains elements for localization to cell-extracellular matrix junctions. The C-terminus contains binding sites for proteins such as beta-1-integrin, actin, and vinculin.

Overview

Product Name	Anti-Talin 1/TLN1 Antibody Picoband™ (monoclonal, 2G10D2)
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Talin 1/TLN1 Antibody Picoband™ (monoclonal, 2G10D2) catalog # M02859. Tested in Flow Cytometry, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, WB
Clonality	Monoclonal 2G10D2
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 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	Mouse
Uniprot ID	Q9Y490

Technical Details

Immunogen	E.coli-derived human Talin 1/TLN1 recombinant protein (Position: Q1658-N1876).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti- IgG (EK1001) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Mouse IgG1
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this

kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat

Flow Cytometry, 1-3 ug/1x10⁶ cells, Human

Anti-Talin 1/TLN1 Antibody Picoband™ (monoclonal, 2G10D2) (M02859) Images

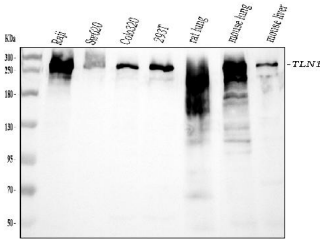


Figure 1. Western blot analysis of TLN1 using anti-TLN1 antibody (M02859).

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 Raji whole cell lysates,
Lane 2: human SW620 whole cell lysates,
Lane 3: human COLO320 whole cell lysates,
Lane 4: human 293T whole cell lysates,
Lane 5: rat lung tissue lysates,
Lane 6: mouse lung tissue lysates,
Lane 7: mouse liver tissue 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-TLN1 antigen affinity purified monoclonal antibody (Catalog # M02859) 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-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 TLN1 at approximately 250-270 kDa. The expected band size for TLN1 is at 270 kDa.

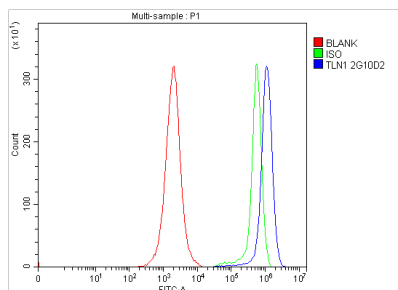


Figure 2. Flow Cytometry analysis of JK cells using anti-TLN1 antibody (M02859).

Overlay histogram showing JK cells stained with M02859 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-TLN1 Antibody (M02859, 1 ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10 ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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