

Rabbit Talin 1/TLN1 Polyclonal Antibody | anti-TLN1 antibody

Anti-Talin 1/TLN1 Antibody

CATALOG # AAA124944	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

Talin 1/TLN1; Polyclonal Antibody; Anti-Talin 1/TLN1 Antibody; Talin-1; TLN1; KIAA1027; TLN; Talin 1; anti-TLN1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized
Sequence Length	2,541
Applicable Applications for anti-TLN1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence of human Talin 1 (QQLAPREGISQEALHTQMLTAVQEISHLIEPLANAARAEASQ).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Relevant Detection Systems	It is recommended to use an Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC-P.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



IHC (Immunohiostchemistry)

Figure 3. IHC analysis of Talin 1 using anti-Talin 1 antibody.Talin 1 was detected in paraffin-embedded section of mouse small intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/mL rabbit anti-Talin 1 antibody.Talin 1 was detected in paraffin-embedded section of mouse small intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/mL rabbit anti-Talin 1 antibody.Talin 1 was detected in paraffin-embedded section of rat small intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Talin 1 antibody.Talin 1 was detected in paraffin-embedded section of human intestinal cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Talin 1 antibody.Talin 1 was detected in paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Talin 1 antibody.Talin 1 was detected in paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Talin 1 antibody.Talin 1 was detected in paraffin-embedded section of rat lung tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Talin 1 antibody.Talin 1 was detected in paraffin-embedded section of rat spleen tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Talin 1 Antibody overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of Talin 1 using anti-Talin 1 antibody.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 50ug of sample under reducing conditions.Lane 1: rat lung tissue lysates,Lane 2: mouse lung tissue lysates,Lane 3: human U-87MG whole cell lysates,Lane 4: human MDA-MB-231 whole cell lysates,Lane 5: human HepG2 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-Talin 1 antigen affinity purified polyclonal antibody at 0.5 ug/mL overnight at 4 degree 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 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Talin 1 at approximately 270KD. The expected band size for Talin 1 is at 270KD.

ADDITIONAL INFORMATION

Related Product Information for anti-TLN1 antibody	Description: Rabbit IgG polyclonal antibody for Talin 1 detection. Tested with WB, IHC-P in Human; Mouse; Rat. Background: 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.
References	1. Ben-Yosef T, Francomano CA (Dec 1999). "Characterization of the human talin (TLN) gene: genomic structure, chromosomal localization, and expression pattern". Genomics. 62 (2): 316-9. 2. Gilmore AP, Ohanian V, Spurr NK, Critchley DR (Aug 1995). "Localisation of the human gene encoding the cytoskeletal protein talin to chromosome 9p". Human Genetics. 96 (2): 221-4.

NCBI AND UNIPROT INFORMATION

NCBI GI #	223029410
NCBI GeneID	7094
NCBI Accession #	NP_006280.3
NCBI GenBank Nucleotide #	NM_006289.4
UniProt Accession #	Q9Y490; Q86YD0; Q9NZQ2; Q9UHH8; Q9UPX3; A6NMY0

Molecular Weight	269,767 Da
NCBI Official Full Name	talin-1
NCBI Official Synonym Full Names	talin 1
NCBI Official Symbol	TLN1
NCBI Official Synonym Symbols	TLN; ILWEQ; talin-1
NCBI Protein Information	talin-1
UniProt Protein Name	Talin-1
UniProt Gene Name	TLN1
UniProt Synonym Gene Names	KIAA1027; TLN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/talin-1-tln1-antibody-immunohistochemistry-western-blot-elisa/124944>