

Mouse Talin Monoclonal Antibody | anti-TLN1 antibody

Talin (Rod domain) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71718	Mouse	Human, Rat, Mouse, Chicken, Fish	Immunocytochemistry, Immunoprecipitation, ELISA, Western Blot

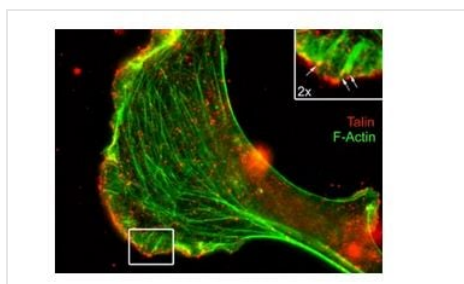
PRODUCT SYNONYMS

Talin; Monoclonal Antibody; Talin (Rod domain) Antibody; Talin (Rod domain); anti-TLN1 antibody

PRODUCT SPECIFICATIONS

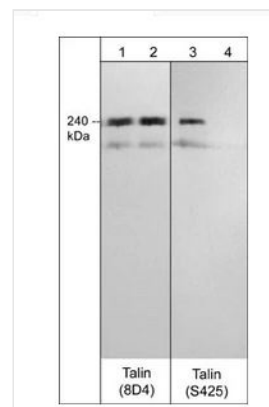
Host	Mouse
Reactivity	Human, Rat, Mouse, Chicken, Fish
Clonality	Monoclonal
Isotype	IgG1
Clone Number	8D4
Specificity	The antibody detects a 240kDa* protein corresponding to the molecular mass of Talin on SDS-PAGE immunoblots of human A431, rat PC12, and rabbit fibroblast cells.
Purity/Purification	Protein A chromatography
Form/Format	Mouse monoclonal antibody purified with protein A chromatography is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-TLN1 antibody	ICC (Immunocytochemistry), IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Clone 8D4 was generated from purified chicken gizzard talin. The antibody recognizes an epitope within the rod domain of talin from many species, including human, rat, mouse, chicken, and frog.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



ICC (Immunocytochemistry)

Immunocytochemical labeling of Talin relative to F-actin in chick fibroblasts. The cells were labeled with mouse monoclonal Talin (Rod domain) antibody (TM4081), then the antibody was detected using appropriate secondary antibody (Red). This labeling is compared to F-actin staining (Green). (Image provided by Dr. Gianluca Gallo at Drexel University).



WB (Western Blot)

Western blot of rat PC12 cells stimulated with Calyculin A (100nM) for 30 min (lanes 1-4). The blot was treated with lambda phosphatase (lanes 2 & 4), then probed with mouse monoclonal anti-Talin (8D4) (lanes 1 & 2) or rabbit polyclonal anti-Talin (Ser-425) (lanes 3 & 4) antibodies.

ADDITIONAL INFORMATION

Related Product Information for anti-TLN1 antibody	Talin is an important cytoskeletal component of integrin adhesion sites. Calpains cleave talin precursor (240kDa) into an amino-terminal globular head domain of 47kDa and a carboxyl-terminal 190kDa rod domain. The talin head domain contains a FERM domain that binds integrins, PIP kinase (Type I), and FAK. The rod domain has several vinculin-binding sites, a second integrin-binding site, and two actin-binding sites. These talin protein-protein interactions are critical for integrin activation, focal adhesion formation, and cell migration. Talin regulation may occur through phosphorylation and regulated degradation. The talin head domain binds Smurf1, an E3 ubiquitin ligase, and this interaction leads to talin head ubiquitylation and degradation. Cdk5 can phosphorylate Ser-425 in the head domain, and this inhibits both binding to Smurf1 and subsequent degradation. The S425A talin mutant resists Cdk5 phosphorylation, increases susceptibility to Smurf1-mediated ubiquitylation, and inhibits cell migration. Thus, talin head phosphorylation may be important for regulating adhesion stability and cell migration.
References	Huang, C. et al. (2009) Nat Cell Biol. 11(5):624. Moser, M. et al. (2009) Science. 324(5929):895. Ratnikov, B. et al. (2005) J. Cell Sci. 118:4921.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6682361
NCBI GeneID	7094
UniProt Accession #	Q9Y490; Q86YD0; Q9NZQ2; Q9UHH8; Q9UPX3; A6NMY0
Molecular Weight	269,767 Da
NCBI Official Full Name	talin
NCBI Official Synonym Full Names	talin 1
NCBI Official Symbol	TLN1
NCBI Official Synonym Symbols	TLN; ILWEQ
NCBI Protein Information	talin-1
UniProt Protein Name	Talin-1
UniProt Gene Name	TLN1
UniProt Synonym Gene Names	KIAA1027; TLN
UniProt Entry Name	TLN1_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/talin-antibody-clone-8d4-immunocytochemistry-immunoprecipitation-western-blot-elisa/71718>