

Datasheet: MCA4770

Description:	MOUSE ANTI HUMAN TALIN-1
Specificity:	TALIN-1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	97H6
Isotype:	IgG1
Quantity:	0.2 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			■	
Immunohistology - Frozen			■	
Immunohistology - Paraffin (1)	■			1/25 - 1/100
ELISA			■	
Immunoprecipitation	■			
Western Blotting	■			
Immunofluorescence (2)	■			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1)**This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.**

(2)**Methanol treatment is required prior to antibody staining**

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse, Rabbit N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes

Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	his-tagged polypeptide containing residues 489–911 of mouse talin1.
External Database Links	UniProt: Q9Y490 Related reagents Entrez Gene: 7094 TLN1 Related reagents
Synonyms	KIAA1027, TLN
Fusion Partners	Spleen cells from immunized Balb/c mice were fused with cells from the NS0 murine myeloma.
Specificity	Mouse anti Human Talin-1 antibody, clone 97H6 recognizes an epitope within the region of amino acids 482-655 of humanTalin-1, a high molecular weight cytoskeletal protein, linking vinculin to the integrins, thereby linking the cytoskeleton to the extracellular matrix. It is specifically found in regions of cell-substratum contact and in lymphocytes at cell-cell contact points. Talin-1 plays a role in the assembly of actin filaments and in the migration of cells such as osteoclasts and fibroblasts.
Histology Positive Control Tissue	Tonsil
References	1. Kopp, P.M. <i>et al.</i> (2010) Studies on the morphology and spreading of human endothelial cells define key inter- and intramolecular interactions for talin1. Eur J Cell Biol. 89(9):661-73. 2. Debrand, E. <i>et al.</i> (2012) Mice carrying a complete deletion of the talin2 coding sequence are viable and fertile. Biochem Biophys Res Commun. 426: 190-5. 3. Manso, A.M. <i>et al.</i> (2013) Talin1 has unique expression versus talin 2 in the heart and modifies the hypertrophic response to pressure overload. J Biol Chem. 288: 4252-64 4. Liu, J. <i>et al.</i> (2011) Talin1 regulates integrin turnover to promote embryonic epithelial morphogenesis. Mol Cell Biol. 31: 3366-77. 5. Monkley, S.J. <i>et al.</i> (2011) Endothelial cell talin1 is essential for embryonic angiogenesis. Dev Biol. 349: 494-502. 6. Ketscher, A. <i>et al.</i> (2014) LSD1 controls metastasis of androgen-independent prostate cancer cells through PXN and LPAR6. Oncogenesis. 3: e120. 7. Qi, L. <i>et al.</i> (2016) Talin2-mediated traction force drives matrix degradation and cell invasion. J Cell Sci. 129 (19): 3661-74. 8. Ichikawa, Y. <i>et al.</i> (2017) Modulation of caveolins, integrins and plasma membrane repair proteins in anthracycline-induced heart failure in rabbits. PLoS One. 12 (5): e0177660.
Storage	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Health And Safety	Material Safety Datasheet documentation #10040 available at:

Information10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>**Regulatory**

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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