

Datasheet: MCA4770GA

BATCH NUMBER 164024

Description:	MOUSE ANTI HUMAN TALIN-1
Specificity:	TALIN-1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	97H6
Isotype:	IgG1
Quantity:	0.1 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 - 1/200
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. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A 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	<p>UniProt: Q9Y490 Related reagents</p> <p>Entrez Gene: 7094 TLN1 Related reagents</p>
Synonyms	KIAA1027, TLN
RRID	AB_10675618
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 human Talin-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	<ol style="list-style-type: none"> 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. Monkley, S.J. <i>et al.</i> (2011) Endothelial cell talin1 is essential for embryonic angiogenesis. Dev Biol. 349: 494-502. 3. Liu, J. <i>et al.</i> (2011) Talin1 regulates integrin turnover to promote embryonic epithelial morphogenesis. Mol Cell Biol. 31: 3366-77. 4. 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.](#)
5. Manso, A.M. *et al.* (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](#)
6. Ketscher, A. *et al.* (2014) LSD1 controls metastasis of androgen-independent prostate cancer cells through PXN and LPAR6. [Oncogenesis. 3: e120.](#)
7. Qi, L. *et al.* (2016) Talin2-mediated traction force drives matrix degradation and cell invasion. [J Cell Sci. 129 \(19\): 3661-74.](#)
8. Ichikawa, Y. *et al.* (2017) Modulation of caveolins, integrins and plasma membrane repair proteins in anthracycline-induced heart failure in rabbits. [PLoS One. 12 \(5\): e0177660.](#)

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA4770GA>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)

Goat Anti Mouse IgG (STAR76...) [RPE](#)

Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Goat Anti Mouse IgG (STAR70...) [FITC](#)

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@550](#),
[DyLight@650](#), [DyLight@680](#), [DyLight@800](#),
[FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

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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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M414903:221214'

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