

Datasheet: MCA4770

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| 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

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| 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 |

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| 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_10671591 |
| 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 | <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. 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 | <p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>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.</p> |
| Guarantee | 12 months from date of despatch |

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

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

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

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