

Datasheet: MCA4771GA

BATCH NUMBER 168515

Description:	MOUSE ANTI HUMAN TALIN-2
Specificity:	TALIN-2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	53.8
Isotype:	IgG2b
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	▪			1/25 - 1/100
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			
Immunofluorescence (1)	▪			

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)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 1.0 mg/ml
Immunogen	Recombinant Mouse talin-2 (aa2300-2542).
External Database Links	<p>UniProt: Q9Y4G6 Related reagents</p> <p>Entrez Gene: 83660 TLN2 Related reagents</p>
Synonyms	KIAA0320
RRID	AB_10698336
Specificity	<p>Mouse anti Human Talin-2 antibody, clone 53.8 (also designated 121A) recognizes Talin-2, a high molecular weight skeletal protein involved in focal adhesion plaques. It plays a role in linking integrin to the actin cytoskeleton. It interacts with phosphatidylinositol-4-phosphate 5-kinase type I gamma (PIP5K1C), inducing its kinase activity.</p> <p>Mouse anti Human Talin-2 antibody, clone 53.8 recognizes an epitope within the range of amino acids 2470-2500.</p>
Histology Positive Control Tissue	Tonsil
References	<ol style="list-style-type: none"> Liu, J. <i>et al.</i> (2015) Talin determines the nanoscale architecture of focal adhesions. Proc Natl Acad Sci U S A. 112 (35): E4864-73. Prince, H.E. & Yeh, C. (2013) Reactivity of human IgM binding murine monoclonal 6B6C1 (IgG2a) with other murine monoclonal IgG antibodies. J Clin Lab Anal. 27 (1): 27-30. Qi, L. <i>et al.</i> (2016) Talin2-mediated traction force drives matrix degradation and cell invasion. J Cell Sci. 129 (19): 3661-74. 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. Wang, X. <i>et al.</i> (2024) Talin2 binds to non-muscle myosin IIa and regulates cell

attachment and fibronectin secretion. [Sci Rep. 14 \(1\): 20175.](#)

Further Reading

1. Critchley, D.R. & Gingras, A.R. (2008) Talin at a glance. [J Cell Sci. 121 \(Pt 9\): 1345-7.](#)
2. Monkley SJ *et al.* (2001) Analysis of the mammalian talin2 gene TLN2. [Biochem Biophys Res Commun. 286 \(5\): 880-5.](#)

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/MCA4771GA>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

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

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