

Datasheet: MCA4771GA

BATCH NUMBER 161296

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	<p>Reacts with: Mouse, Rabbit</p> <p>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.</p>
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"> 1. 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. 2. 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. 3. Qi, L. <i>et al.</i> (2016) Talin2-mediated traction force drives matrix degradation and cell invasion. J Cell Sci. 129 (19): 3661-74. 4. 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.

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 <i>et al.</i> (2001) Analysis of the mammalian talin2 gene TLN2. Biochem Biophys Res Commun. 286 (5): 880-5.

Storage	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
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/MCA4771GA10040
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
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
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

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

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

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