

## Datasheet: MCA4771

<b>Description:</b>	MOUSE ANTI HUMAN TALIN-2
<b>Specificity:</b>	TALIN-2
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	53.8
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	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](http://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

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Recombinant Mouse talin-2 (aa2300-2542).
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q9Y4G6</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">83660</a>    TLN2    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	KIAA0320
<b>RRID</b>	AB_10672561
<b>Specificity</b>	<p><b>Mouse anti Human Talin-2 antibody, clone 53.8 (also designated 121A)</b> 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 (<a href="#">PIP5K1C</a>), 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>
<b>Histology Positive Control Tissue</b>	Tonsil
<b>References</b>	<ol style="list-style-type: none"> <li>Liu, J. <i>et al.</i> (2015) Talin determines the nanoscale architecture of focal adhesions. <a href="#">Proc Natl Acad Sci U S A. 112 (35): E4864-73.</a></li> <li>Prince, H.E. &amp; Yeh, C. (2013) Reactivity of human IgM binding murine monoclonal 6B6C1 (IgG2a) with other murine monoclonal IgG antibodies. <a href="#">J Clin Lab Anal. 27 (1): 27-30.</a></li> <li>Qi, L. <i>et al.</i> (2016) Talin2-mediated traction force drives matrix degradation and cell invasion. <a href="#">J Cell Sci. 129 (19): 3661-74.</a></li> <li>Ichikawa, Y. <i>et al.</i> (2017) Modulation of caveolins, integrins and plasma membrane repair proteins in anthracycline-induced heart failure in rabbits. <a href="#">PLoS One. 12 (5): e0177660.</a></li> </ol>
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>Critchley, D.R. &amp; Gingras, A.R. (2008) Talin at a glance. <a href="#">J Cell Sci. 121 (Pt 9): 1345-7.</a></li> <li>Monkley SJ <i>et al.</i> (2001) Analysis of the mammalian talin2 gene TLN2. <a href="#">Biochem Biophys Res Commun. 286 (5): 880-5.</a></li> </ol>

<b>Storage</b>	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.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA4771">https://www.bio-rad-antibodies.com/SDS/MCA4771</a> 10040
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight@488</a> , <a href="#">DyLight@550</a> , <a href="#">DyLight@650</a> , <a href="#">DyLight@680</a> , <a href="#">DyLight@800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>

### Recommended Negative Controls

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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](https://bio-rad-antibodies.com/datasheets)

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