

Datasheet: MCA4771

**BATCH NUMBER 156712**

<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

<b>Preparation</b>	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>

- 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.](#)

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**Storage** Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA4771>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

- Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
- Goat Anti Mouse IgG IgA IgM (STAR87...) [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 (STAR77...) [HRP](#)
- Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

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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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