

## Datasheet: MCA4760

<b>Description:</b>	MOUSE ANTI TROPOMODULIN 1 (N-TERMINAL)
<b>Specificity:</b>	TROPOMODULIN 1 (N-TERMINAL)
<b>Other names:</b>	ERYTHROCYTE TROPOMODULIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	TRM-17 (Mab17)
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.25 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			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			
Immunofluorescence	▪			
Functional Assays (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) **Removal of sodium azide is recommended prior to use in functional assays.**

<b>Target Species</b>	Chicken
<b>Species Cross Reactivity</b>	Based on sequence similarity, is expected to react with: Birds, Mammals, Fish, Insect, Reptile <b>N.B.</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.

<b>Product Form</b>	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>	<0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Recombinant chicken tropomodulin 1
<b>RRID</b>	AB_1898203
<b>Specificity</b>	<p><b>Mouse anti Tropomodulin 1 (N-Terminal) antibody, clone TRM-17</b> recognizes chicken tropomodulin 1, otherwise known as erythrocyte tropomodulin or E-Tmod, an evolutionary very highly conserved cytoskeletal protein .</p> <p>Tropomodulin 1 is a sarcomeric protein highly expressed by erythrocytes, heart and skeletal muscle, which binds to and caps pointed ends of actin filaments to prevent thin filament elongation. The binding of the N-terminal region of Tmod1 with the actin-binding protein tropomyosin blocks the elongation and depolymerization of actin filaments, contributing to the geometry of the membrane skeleton.</p> <p>Mouse anti Tropomodulin 1 (N-Terminal) antibody, clone TRM-17 recognizes an epitope between amino acid residues 6-57 within the N-terminal (NT) region of tropomodulin 1 and inhibits the binding of Tmod1 to tropomyosin.</p>
<b>Western Blotting</b>	MCA4760 detects a band of approximately 40kDa in chick heart lysates.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Mudry, R.E. <i>et al.</i> (2003) The interaction of tropomodulin with tropomyosin stabilizes thin filaments in cardiac myocytes. <a href="#">J Cell Biol. 162 (6): 1057-68.</a></li> <li>2. Almenar-Queralt, A. <i>et al.</i> (1999) Identification of a novel tropomodulin isoform, skeletal tropomodulin, that caps actin filament pointed ends in fast skeletal muscle <a href="#">J Biol Chem 274: 28466-75</a></li> </ol>
<b>Storage</b>	<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>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety</b>	Material Safety Datasheet documentation #10040 available at:

**Information** <https://www.bio-rad-antibodies.com/SDS/MCA4760>  
10040

**Regulatory** 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>
Rabbit Anti Mouse IgG (STAR8...)	<a href="#">DyLight®800</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Rabbit Anti Mouse IgG (STAR9...)	<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>

<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>
----------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------	------------------	-------------------------------------------------------------------------------------------------------------------------------------------------	---------------	-----------------------------------------------------------------------------------------------------------------------------------------------------

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)  
'M389563:210806'

Printed on 12 Aug 2023