

## Datasheet: MCA2631GA

<b>Description:</b>	MOUSE ANTI HUMAN CD272
<b>Specificity:</b>	CD272
<b>Other names:</b>	BTLA
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	MIH26
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/10 - 1/200
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	BTLA - transfected L cells.
External Database Links	<p><b>UniProt:</b>  <a href="#">Q7Z6A9</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">151888</a>    BTLA    <a href="#">Related reagents</a></p>
RRID	AB_1125238
Fusion Partners	Spleen cells from immunized C3H/HeN mice were fused with cells of the P3U1 myeloma cell line.
Specificity	<p><b>Mouse anti Human CD272 antibody, clone MIH26</b> detects human CD272, also known as B- and T-lymphocyte attenuator (BTLA). CD272 is a type I transmembrane glycoprotein which is structurally and functionally related to cytotoxic T lymphocyte antigen-4 (CTLA-4), and programmed death-1 (PD-1). CD272 is a T-cell inhibitory receptor that regulates T cell activation through its interaction with herpes virus entry mediator (HVEM), a co-stimulator receptor of the TNFR family.</p> <p>CD272 may negatively regulate T-cell dependent autoimmune reaction, and polymorphisms in its gene have been associated with Rheumatoid Arthritis.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul.
Histology Positive Control Tissue	Human tonsil.
References	<ol style="list-style-type: none"> <li>1. Otsuki, N. <i>et al.</i> (2006) Expression and function of the B and T lymphocyte attenuator (BTLA/CD272) on human T cells. <a href="#">Biochem Biophys Res Commun. 344 (4): 1121-7.</a></li> <li>2. Lin, S.C. <i>et al.</i> (2006) Association of a BTLA gene polymorphism with the risk of rheumatoid arthritis. <a href="#">J Biomed Sci. 13 (6): 853-60.</a></li> </ol>
Further Reading	<ol style="list-style-type: none"> <li>1. Zeng, C. <i>et al.</i> (2005) BTLA, a new inhibitory B7 family receptor with a TNFR family ligand. <a href="#">Cell Mol Immunol. 2 (6): 427-32.</a></li> </ol>
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	18 months from date of despatch.

<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
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>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Human Anti Mouse IgG2a (HCA037...)	<a href="#">FITC</a> , <a href="#">HRP</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®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

### Recommended Useful Reagents

[HISTAR DETECTION SYSTEM \(STAR3000A\)](#)

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