

## Datasheet: MCA4622GA

<b>Description:</b>	MOUSE ANTI HUMAN CD73
<b>Specificity:</b>	CD73
<b>Other names:</b>	ECTO-5'-NUCLEOTIDASE
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	2B6
<b>Isotype:</b>	IgG2b
<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			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			1/1000 - 1/2000

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 ascites
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.02% Sodium Azide (NaN <sub>3</sub> ) 10% Glycerol
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml

<b>Immunogen</b>	Recombinant human CD73 (amino acids 27-252) purified from <i>E. coli</i> .
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P21589</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">4907</a>    NT5E    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	NT5, NTE
<b>RRID</b>	AB_2251511
<b>Fusion Partners</b>	Spleen cells from immunised Balb/c mice were fused with cells of the mouse FO myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human CD73, clone 2B6</b> recognizes human CD73, otherwise known as ecto-5'-nucleotidase, a GPI-anchored enzyme and member of the 5'-nucleotidase family, which catalyzes the dephosphorylation of 5'-mononucleotides into their corresponding nucleosides, and can also mediate co-stimulatory signals in T cell activation (<a href="#">Dianzani et al. 1993</a>).</p> <p>CD73 is expressed by subpopulations of T and B lymphocytes, and increases during lymphocyte development, acting as a lymphocyte maturation marker. A decrease in CD73 activity has been associated with several immunodeficiency disorders including AIDS and Wiskott-Aldrich syndrome, and CD73 is expressed on a variety of lymphomas and leukaemias, including CLL and ALL (<a href="#">Zhao et al. 2011</a>)</p>
<b>Western Blotting</b>	MCA4622GA detects a band of approximately 63 kDa in human mesenchymal stem cell lysates.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Ciccocioppo, R. <i>et al.</i> (2011) Autologous bone marrow-derived mesenchymal stromal cells in the treatment of fistulising Crohn's disease. <a href="#">Gut. 60 (6): 788-98.</a></li> <li>2. Fausther, M. <i>et al.</i> (2014) NT5E mutations that cause human disease are associated with intracellular mistrafficking of NT5E protein. <a href="#">PLoS One. 9 (6): e98568.</a></li> <li>3. Asti, A. <i>et al.</i> (2010) Stem Cells Grown in Osteogenic Medium on PLGA, PLGA/HA, and Titanium Scaffolds for Surgical Applications. <a href="#">Bioinorg Chem Appl. : 831031.</a></li> </ol>
<b>Storage</b>	<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>
<b>Guarantee</b>	18 months from date of despatch.
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10049 available at:  10049: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf</a></p>

## 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>
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 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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