

## Datasheet: MCA644G

<b>Description:</b>	MOUSE ANTI HUMAN IgD (Fc)
<b>Specificity:</b>	IgD (Fc)
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	LE2
<b>Isotype:</b>	IgG1
<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
Immunohistology - Frozen	▪			1/100 - 1/300

Where this antibody 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 antibody 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
<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 mg/ml
<b>Immunogen</b>	Purified Human IgD (Fc).

### External Database Links

#### UniProt:

[P01880](https://www.uniprot.org/entry/P01880)

[Related reagents](#)

**Entrez Gene:**[3495](#) IGHD [Related reagents](#)

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<b>RRID</b>	AB_567013
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<b>Fusion Partners</b>	Spleen cells from BALB/c mice were fused with cells of the NS1 mouse myeloma cell line.
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<b>Specificity</b>	<b>Mouse anti Human IgD (Fc) antibody, clone LE2</b> recognizes an epitope located in the Fc region the heavy chain of human immunoglobulin D (IgD). Human IgD existst in two forms, the major membrane bound form which is co-expressed with IgM on the surface of mature B-cells ( <a href="#">Blattner et al. 1984</a> ) and a minor secreted form comprising about 0.25% total serum Ig ( <a href="#">Rogentine et al. 1966</a> ). Membrane bound IgD bears predominantly the κ light chain whereas the secreted form has predominantly λ light chains ( <a href="#">Preud'homme et al. 2000</a> )
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<b>References</b>	<ol style="list-style-type: none"><li>1. Creasey, A.M. <i>et al.</i> (2003) Nonspecific immunoglobulin M binding and chondroitin sulfate A binding are linked phenotypes of Plasmodium falciparum isolates implicated in malaria during pregnancy. <a href="#">Infect Immun. 71 (8): 4767-71.</a></li><li>2. Kolar, G.R. <i>et al.</i> (2007) A novel human B cell subpopulation representing the initial germinal center population to express AID. <a href="#">Blood. 109: 2545-52.</a></li><li>3. Sun, Z. <i>et al.</i> (2005) Semi-extended solution structure of human myeloma immunoglobulin D determined by constrained X-ray scattering. <a href="#">J Mol Biol. 353: 155-73.</a></li><li>4. Toly-Ndour, C. <i>et al.</i> (2011) Acute renal failure with lambda light chain-derived crystals in a patient with IgD myeloma. <a href="#">Nephrol Dial Transplant. 26: 3057-9.</a></li></ol>
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<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>
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<b>Guarantee</b>	12 months from date of despatch
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<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>
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<b>Regulatory</b>	For research purposes only
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## 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...) [Alk. Phos.](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (STAR70...) [FITC](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),  
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),  
[FITC](#), [HRP](#)

## Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

<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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