

## Datasheet: MCA2193

**BATCH NUMBER 164868**

<b>Description:</b>	MOUSE ANTI HUMAN HLA E
<b>Specificity:</b>	HLA E
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	MEM-E/02
<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
Flow Cytometry		▪		
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 A from ascites
<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 HLA-E.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P13747</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3133</a>    HLA-E    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	HLA-6.2, HLA-E
<b>RRID</b>	AB_324025
<b>Specificity</b>	<p><b>Mouse anti Human HLA-E antibody, clone MEM-E/02</b> reacts with the denatured heavy chain of the non-classical MHC class I HLA-E molecule. HLA-E exists as a heterodimer consisting of a heavy chain and a light chain, beta-2-microglobulin.</p> <p>Mouse anti Human HLA-E antibody, clone MEM-E/02 does not recognize native HLA-E by flow cytometry and does not cross react with HLA-A, -B, -C or G.</p>
<b>Western Blotting</b>	Mouse anti Human HLA E antibody, clone MEM-E/02 detects a band of approximately 43 kDa.
<b>References</b>	<ol style="list-style-type: none"> <li>Menier; C. <i>et al.</i> (2003) Characterization of monoclonal antibodies recognizing HLA-G or HLA-E: new tools to analyze the expression of nonclassical HLA class I molecules. <a href="#">Hum Immunol. 64: 315-26.</a></li> <li>Ashrafi, G.H. <i>et al.</i> (2005) E5 protein of human papillomavirus type 16 selectively downregulates surface HLA class I. <a href="#">Int J Cancer. 113: 276-83.</a></li> <li>Griffin, C. <i>et al.</i> (2005) Characterization of a highly glycosylated form of the human cytomegalovirus HLA class I homologue gpUL18. <a href="#">J Gen Virol. 86: 2999-3008.</a></li> <li>Derré, L. <i>et al.</i> (2006) Expression and release of HLA-E by melanoma cells and melanocytes: potential impact on the response of cytotoxic effector cells. <a href="#">J Immunol. 177: 3100-7.</a></li> <li>Trichet, V. <i>et al.</i> (2006) Complex interplay of activating and inhibitory signals received by Vgamma9Vdelta2 T cells revealed by target cell beta2-microglobulin knockdown. <a href="#">J Immunol. 177: 6129-36.</a></li> <li>Coupel, S. <i>et al.</i> (2007) Expression and release of soluble HLA-E is an immunoregulatory feature of endothelial cell activation. <a href="#">Blood. 109: 2806-14.</a></li> <li>Cui, C.H. <i>et al.</i> (2011) Dystrophin conferral using human endothelium expressing HLA-E in the non-immunosuppressive murine model of Duchenne muscular dystrophy. <a href="#">Hum Mol Genet. 20 (2): 235-44.</a></li> <li>Djajadiningrat, R.S. <i>et al.</i> (2015) Classic and nonclassic HLA class I expression in penile cancer and relation to HPV status and clinical outcome. <a href="#">J Urol. 193 (4): 1245-51.</a></li> <li>Eugène, J. <i>et al.</i> (2020) The inhibitory receptor CD94/NKG2A on CD8(+) tumor-infiltrating lymphocytes in colorectal cancer: a promising new druggable immune checkpoint in the context of HLA-E/β2m overexpression. <a href="#">Mod Pathol. 33 (3): 468-482.</a></li> </ol>
<b>Storage</b>	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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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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: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2193">https://www.bio-rad-antibodies.com/SDS/MCA2193</a> 10040
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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>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<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>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>

### 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://www.bio-rad-antibodies.com/datasheets)

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