

## Datasheet: MCA2193

**BATCH NUMBER 170511**

<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 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 systems using appropriate positive/negative 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>	0.09% Sodium Azide
<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, HLAE
<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>	MCA2193 detects a band of approximately 43kDa.
<b>References</b>	<ol style="list-style-type: none"> <li>1. 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>2. 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>3. 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>4. 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>5. 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>6. 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>7. 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>8. 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>9. Eugène, J. <i>et al.</i> (2019) The inhibitory receptor CD94/NKG2A on CD8<sup>+</sup> tumor-infiltrating lymphocytes in colorectal cancer: a promising new druggable immune checkpoint in the context of HLAE/β2m overexpression. <a href="#">Mod Pathol. Aug 13 [Epub ahead of print].</a></li> </ol>
<b>Storage</b>	Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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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

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</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>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>

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Printed on 19 Jan 2024