

Datasheet: MCA2193

Description:	MOUSE ANTI HUMAN HLA E
Specificity:	HLA E
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MEM-E/02
Isotype:	IgG1
Quantity:	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.

	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.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from ascites
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% sodium azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Immunogen	Recombinant HLA-E.
External Database Links	<p>UniProt: P13747 Related reagents</p> <p>Entrez Gene: 3133 HLA-E Related reagents</p>
Synonyms	HLA-6.2, HLA-E
RRID	AB_324025
Specificity	<p>Mouse anti Human HLA-E antibody, clone MEM-E/02 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>
Western Blotting	Mouse anti Human HLA E antibody, clone MEM-E/02 detects a band of approximately 43 kDa.
References	<ol style="list-style-type: none"> 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. Hum Immunol. 64: 315-26. Ashrafi, G.H. <i>et al.</i> (2005) E5 protein of human papillomavirus type 16 selectively downregulates surface HLA class I. Int J Cancer. 113: 276-83. Griffin, C. <i>et al.</i> (2005) Characterization of a highly glycosylated form of the human cytomegalovirus HLA class I homologue gpUL18. J Gen Virol. 86: 2999-3008. 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. J Immunol. 177: 3100-7. 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. J Immunol. 177: 6129-36. Coupeil, S. <i>et al.</i> (2007) Expression and release of soluble HLA-E is an immunoregulatory feature of endothelial cell activation. Blood. 109: 2806-14. 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. Hum Mol Genet. 20 (2): 235-44. 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. J Urol. 193 (4): 1245-51. 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. Mod Pathol. 33 (3): 468-482.
Storage	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.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2193 10040
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@550 , DyLight@650 , DyLight@680 , DyLight@800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC

Recommended Negative Controls

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

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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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