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 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.

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	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant HLA-E.
External Database Links	**UniProt:** P13747 Related reagents

	Entrez Gene: 3133 HLA-E Related reagents
Synonyms	HLA-6.2, HLAE
Specificity	**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. 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.
Western Blotting	MCA2193 detects a band of approximately 43kDa.
References	1. Cui, C.H. *et al.* (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. 2. Derré, L. *et al.* (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. 3. Menier; C. *et al.* (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. 4. Coupel, S. *et al.* (2007) Expression and release of soluble HLA-E is an immunoregulatory feature of endothelial cell activation. Blood. 109: 2806-14. 5. Ashrafi, G.H. *et al.* (2005) E5 protein of human papillomavirus type 16 selectively downregulates surface HLA class I. Int J Cancer. 113: 276-83. 6. Trichet, V. *et al.* (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. 7. Griffin, C. *et al.* (2005) Characterization of a highly glycosylated form of the human cytomegalovirus HLA class I homologue gpUL18. J Gen Virol. 86: 2999-3008. 8. Djajadiningrat, R.S. *et al.* (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.
Storage	Store at +4^{o}C or at -20^{o}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.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos., HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP

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

'M293141:160810'

Printed on 30 Apr 2018