

Datasheet: MCA2043

Description:	MOUSE ANTI HUMAN HLA G
Specificity:	HLA G
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MEM-G/1
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 (1)	▪			1/60 - 1/100
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting (2)	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

(2) MEM-G/1 recognizes HLA G under reducing conditions

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide

Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Denatured bacterially expressed recombinant human HLA G heavy chain.
External Database Links	<p>UniProt: P17693 Related reagents</p> <p>Entrez Gene: 3135 HLA-G Related reagents</p>
Synonyms	HLA-6.0, HLAG
RRID	AB_323365
Specificity	<p>Mouse anti Human HLA G antibody, clone MEM-G/1 reacts with denatured soluble and membrane-bound HLA G heavy chain.</p> <p>The major histocompatibility complex (MHC) is a cluster of genes that are important in the immune response to infections. In humans, this complex is referred to as the human leukocyte antigen (HLA) region.</p> <p>HLA G belongs to the HLA class I molecules (HLA Class Ib; nonclassical) and is involved in the presentation of foreign antigens to the immune system. This molecule is expressed on the surface of trophoblast cells and plays a role in maternal tolerance of the fetus by mediating protection from the deleterious effects of natural killer cells, cytotoxic T lymphocytes, macrophages and mononuclear cells.</p>
Histology Positive Control Tissue	Human placenta - extravillous cytotrophoblast
References	<ol style="list-style-type: none"> 1. Frumento, G. <i>et al.</i> (2000) Melanomas and melanoma cell lines do not express HLA-G, and the expression cannot be induced by gammaIFN treatment. Tissue Antigens. 56 (1): 30-7. 2. Fournel, S. <i>et al.</i> (2000) Comparative reactivity of different HLA-G monoclonal antibodies to soluble HLA-G molecules. Tissue Antigens. 55 (6): 510-8. 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. Hum Immunol. 64 (3): 315-26. 4. Orozco, A.F. and Lewis, D.E. (2010) Flow cytometric analysis of circulating microparticles in plasma. Cytometry A. 77: 502-14. 5. Comiskey, M. <i>et al.</i> (2007) HLA-G is found in lipid rafts and can act as a signaling molecule. Hum Immunol. 68: 1-11. 6. Chang, C.T. <i>et al.</i> (2005) Immunophenotypic and molecular cytogenetic features of the cell line UP-LN1 established from a lymph node metastasis of a poorly-differentiated carcinoma. Anticancer Res. 25: 683-91.

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

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 (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Rabbit Anti Mouse IgG (STAR8...) [DyLight@800](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@680](#),
[DyLight@800](#), [FITC](#), [HRP](#)
Goat Anti Mouse IgG (STAR70...) [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

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)

'M383637:210513'

Printed on 18 May 2021

© 2021 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)