

# Datasheet: MCA2043 BATCH NUMBER 162785

Description:	MOUSE ANTI HUMAN HLA G
Specificity:	HLA G
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MEM-G/1
Isotype:	lgG1
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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	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 supernatant	from tissue culture
Buffer Solution	Phosphate buffered saline	
Preservative	<0.1% Sodium Azide (NaN <sub>3</sub> )	

Stabilisers				
Approx. Protein Concentrations	IgG concentration 1.0mg/ml			
Immunogen	Denatured bacterially expressed recombinant human HLA G heavy chain.			
External Database Links	UniProt: P17693 Related reagents			
	Entrez Gene:  3135 HLA-G Related reagents			
Synonyms	HLA-6.0, HLAG			
RRID	AB_323365			
Specificity	Mouse anti Human HLA G antibody, clone MEM-G/1 reacts with denatured soluble and membrane-bound HLA G heavy chain.			
	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.			
	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.			
Histology Positive Control Tissue	Human placenta - extravillous cytotrophoblast			
References	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. <u>Tissue Antigens. 56 (1):</u> 30-7.			
	2. Fournel, S. <i>et al.</i> (2000) Comparative reactivity of different HLA-G monoclonal			
	antibodies to soluble HLA-G molecules. <u>Tissue Antigens. 55 (6): 510-8.</u>			
	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. <u>Hum Immunol. 68: 1-11.</u> 6. Chang, C.T. <i>et al.</i> (2005) Immunophenotypic and molecular cytogenetic features of the			

carcinoma. Anticancer Res. 25: 683-91.

cell line UP-LN1 established from a lymph node metastasis of a poorly-differentiated

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: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2043">https://www.bio-rad-antibodies.com/SDS/MCA2043</a> 10040		
Regulatory	For research purposes only		

### **Related Products**

#### **Recommended Secondary Antibodies**

Rabbit Anti Mouse IgG (STAR12...)

Goat Anti Mouse IgG IgA IgM (STAR87...)

HRP

Goat Anti Mouse IgG (STAR76...)

RPE

Rabbit Anti Mouse IgG (STAR13...)

HRP

Goat Anti Mouse IgG (STAR70...)

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...) <u>FITC</u>
Goat Anti Mouse IgG (STAR77...) <u>HRP</u>

Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M389370:210806'

#### Printed on 18 Jan 2024

© 2024 Bio-Rad Laboratories Inc | Legal | Imprint