

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 ascites
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	UniProt:

Links

[P17693](#) [Related reagents](#)

Entrez Gene:

[3135](#) HLA-G [Related reagents](#)

Synonyms

HLA-6.0, HLAG

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. *et al.* (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. *et al.* (2000) Comparative reactivity of different HLA-G monoclonal antibodies to soluble HLA-G molecules. [Tissue Antigens. 55 \(6\): 510-8.](#)
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 \(3\): 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. *et al.* (2007) HLA-G is found in lipid rafts and can act as a signaling molecule. [Hum Immunol. 68: 1-11.](#)
6. Chang, C.T. *et al.* (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

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.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet Documentation #10040 available at: <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 (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
HuCAL Anti Mouse IgG1 (HCA036...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR12...)	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

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