

Datasheet: MCA2044F

Description:	MOUSE ANTI HUMAN HLA G:FITC
Specificity:	HLA G
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	MEM-G/9
Isotype:	IgG1
Quantity:	0.1 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	▪			

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 conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	<0.1% sodium azide (NaN ₃)		
Stabilisers	1% bovine serum albumin		
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml		
Immunogen	Recombinant human HLA-G refolded with beta 2 microglobulin.		

External Database Links	UniProt: P17693 Related reagents
	Entrez Gene: 3135 HLA-G Related reagents
Synonyms	HLA-6.0, HLAG
RRID	AB_322626
Fusion Partners	Spleen cells from immunized Balb/c mice were fused with myeloma cells.
Specificity	Mouse anti Human HLA G antibody, clone MEM-G/9 recognizes human HLA-G, a non-classical major histocompatibility complex (MHC) molecule. HLA-G expression is restricted to trophoblast cells and some medullary thymic epithelial cells. Several isoforms of the HLA-G molecule exist, which include the membrane bound isoforms HLA-G1 – G4 and soluble isoforms HLA-G5 – G7. Mouse anti Human HLA G antibody, clone MEM-G/9 recognizes surface expressed native HLA-G1, when associated with beta 2 microglobulin, but not does recognize the isoforms HLA-G2, G3 and G4. Mouse anti Human HLA G antibody, clone MEM-G/9 has also been reported to recognize the soluble isoform HLA-G5.
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl
References	1. 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. 2. 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. 3. Kotze, D.J. <i>et al.</i> (2010) Embryo selection criteria based on morphology VERSUS the expression of a biochemical marker (sHLA-G) and a graduated embryo score: prediction of pregnancy outcome. J Assist Reprod Genet. 27 (6): 309-16. 4. Guetta, E. <i>et al</i> (2005) Trophoblasts isolated from the maternal circulation: <i>in vitro</i> expansion and potential application in non-invasive prenatal diagnosis. J Histochem Cytochem. 53: 337-9. 5. Hiby, S.E. <i>et al</i> (2010) Maternal activating KIRs protect against human reproductive failure mediated by fetal HLA-C2 J Clin Invest. 120: 4102-10. 6. Sher, G. <i>et al.</i> (2005) Influence of early ICSI-derived embryo sHLA-G expression on pregnancy and implantation rates: a prospective study. Hum Reprod. 20: 1359-63. 7. Sher, G. <i>et al.</i> (2005) Soluble human leukocyte antigen G expression in phase I culture media at 46 hours after fertilization predicts pregnancy and implantation from day 3 embryo transfer. Fertil Steril. 83: 1410-3. 8. Apps, R. <i>et al.</i> (2011) <i>Ex vivo</i> functional responses to HLA-G differ between blood and decidual NK cells. Mol Hum Reprod. 17: 577-86. 9. Manaster, I. <i>et al.</i> (2012) MiRNA-mediated control of HLA-G expression and function. PLoS One. 7: e33395. 10. Nüchel, H. <i>et al.</i> (2005) HLA-G expression is associated with an unfavorable outcome

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 18. Reches, A. *et al.* (2020) A Unique Regulation Region in the 3' UTR of HLA-G with a Promising Potential. [Int J Mol Sci. 21 \(3\): 900.](#)
 19. Gamliel, M. *et al.* (2018) Trained Memory of Human Uterine NK Cells Enhances Their Function in Subsequent Pregnancies. [Immunity. 48 \(5\): 951-962.e5.](#)
 20. Stavrou, S. *et al.* (2018) TAAR1 induces a disturbed GSK3 β phosphorylation in recurrent miscarriages through the ODC. [Endocr Connect. 7 \(2\): 372-84.](#)
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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.
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Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2044F 10041

Regulatory	For research purposes only
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Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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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

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