Datasheet: MCA2044 BATCH NUMBER 153575

Description:	MOUSE ANTI HUMAN HLA G
Specificity:	HLA G
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MEM-G/9
lsotype:	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 <u>www.bio-rad-antibodies.com/protocols</u>.

		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry				
	Immunohistology - Frozen (1)	-			
	Immunohistology - Paraffin				
	ELISA				
	Immunoprecipitation				
	Western Blotting				
	Immunofluorescence				
	necessarily exclude its use in such procedures. It is recommended that the use the antibody for use in their own system using appropriate negative/positive cor (1) The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the us acetone fixation for frozen sections.				a that the user titrates e/positive controls. sensitive to mends the use of
Target Species	Human				
Product Form	Purified IgG - liquid				
Preparation	Purified IgG prepared by affinity chromatography on Protein A				
Buffer Solution	Phosphate buffered salin	е			

Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Recombinant human HLA-G refolded with beta 2 microglobulin.
External Database Links	UniProt: <u>P17693</u> <u>Related reagents</u>
	<u>3135</u> HLA-G <u>Related reagents</u>
Synonyms	HLA-6.0, HLAG
RRID	AB_323364
Fusion Partners	Spleen cells from immunised 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. Clone MEM-G/9 specifically recognizes surface expressed native HLA-G1, when associated with beta 2 microglobulin, but not does recognize the isoforms HLA-G2, G3 and G4. CMouse anti Human HLA G antibody, clone MEM-G/9 has also been reported to recognize the soluble isoform HLA-G5.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	 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> 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. <u>Hum Immunol. 64 (3): 315-26.</u> 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. <u>J Assist Reprod Genet. 27 (6): 309-16.</u> 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. <u>J Histochem</u> <u>Cytochem. 53: 337-9.</u> Hiby, S.E. <i>et al</i> (2010) Maternal activating KIRs protect against human reproductive failure mediated by fetal HLA-C2 <u>J Clin Invest. 120: 4102-10.</u> Sher, G. <i>et al.</i> (2005) Influence of early ICSI-derived embryo sHLA-G expression on pregnancy and implantation rates: a prospective study. <u>Hum Reprod. 20: 1359-63.</u> 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

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	cells Sensors and Actuators B: Chemical. 165 (1): 1-6.
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.
Guarantee	12 months from date of despatch
Health And Safety	Material Safety Datasheet documentation #10040 available at:
Information	https://www.bio-rad-antibodies.com/SDS/MCA2044
	10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)RPEGoat Anti Mouse IgG IgA IgM (STAR87...)HRPGoat Anti Mouse IgG (STAR76...)RPE

Rabbit Anti Mouse IgG (STAR13)	HRP
Goat Anti Mouse IgG (STAR70)	FITC
Goat Anti Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyLight®550,
	<u>DyLight®650</u> , <u>DyLight®680</u> , <u>DyLight®800</u> ,
	<u>FITC</u> , <u>HRP</u>
Rabbit Anti Mouse IgG (STAR9)	FITC
Goat Anti Mouse IgG (STAR77)	HRP
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP
Recommended Negative Controls	
MOUSE IgG1 NEGATIVE CONTROL (MCA92	8)

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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 'M366090:200529'

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