

Monoclonal Antibody to HLA class I alpha G / HLA-G - PE

Alternate names:	HLA class I histocompatibility antigen, HLA-6.0, HLAG, MHC class I antigen G
Catalog No.:	SM1592R
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	HLA-G belongs to the MHC Class I molecules (MHC Class Ib; nonclassical) and it is expressed on the surface of trophoblast cells.
Uniprot ID:	P17693
NCBI:	NP_002118.1
GeneID:	3135
Host / Isotype:	Mouse / IgG1
Clone:	MEM-G/9
Immunogen:	Recombinant human HLA-G refolded with beta2-microglobulin and peptide
Format:	State: Liquid purified Ig fraction Buffer System: PBS containing 15 mM Sodium Azide and 0.2% (w/v) high-grade protease free BSA as a stabilizing agent. Label: PE – Conjugated with R-Phycoerythrin under optimum conditions. The conjugate is purified by size-exclusion chromatography
Applications:	Flow Cytometry analysis of cells expressing HLA-G molecule on the cell surface. <i>Suggested Working Dilution:</i> 1/100. <i>Positive Control:</i> JEG-3 Human choriocarcinoma cell line. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The antibody reacts with native form of Human HLA-G1 on the cell surface as well as with soluble HLA-G5 isoform in its beta2-microglobulin associated form. The clone MEM-G/9 is standard reagent thoroughly validated during 3rd International Conference on HLA-G (Paris, 2003).
Species Reactivity:	Tested: Human. Does not react with Mouse.
Storage:	Store the antibody undiluted at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
General References:	1. Fournel S, Huc X, Aguerre-Girr M, Solier C, Legros M, Praud-Brethenou C, Moussa M, Chaouat G, Berrebi A, Bensussan A, Lenfant F, Le Bouteiller P.: Comparative reactivity of different HLA-G monoclonal antibodies to soluble HLA-G molecules. Tissue Antigens. 2000 Jun;55(6):510-8.

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2. Lozano JM, Gonzalez R, Kindelan JM, Rouas-Freiss N, Caballos R, Dausset J, Carosella ED, Pena J.: Monocytes and T lymphocytes in HIV-1-positive patients express HLA-G molecule. *AIDS*. 2002 Feb 15;16(3):347-51.
3. Pangault C, Le Friec G, Caulet-Maugendre S, Lena H, Amiot L, Guilloux V, Onno M, Fauchet R.: Lung macrophages and dendritic cells express HLA-G molecules in pulmonary diseases. *Hum Immunol*. 2002 Feb;63(2):83-90.
4. Fuzzi B, Rizzo R, Criscuoli L, Noci I, Melchiorri L, Scarselli B, Bencini E, Menicucci A, Baricordi OR.: HLA-G expression in early embryos is a fundamental prerequisite for the obtainment of pregnancy. *Eur J Immunol*. 2002 Feb;32(2):311-5.
5. Menier C, Saez B, Horejsi V, Martinozzi S, Krawice-Radanne I, Bruel S, Le Danff C, Reboul M, Hilgert I, Rabreau M, Larrad ML, Pla M, Carosella ED, Rouas-Freiss N.: Characterization of monoclonal antibodies recognizing HLA-G or HLA-E: new tools to analyze the expression of nonclassical HLA class I molecules. *Hum Immunol*. 2003 Mar;64(3):315-26.
6. Abstracts from the 3rd International Conference on HLA-G. *Tissue Antigens* 62, 339-357 (2003).
7. Lopez AS, Alegre E, LeMaout J, Carosella E, Gonzalez A. Regulatory role of tryptophan degradation pathway in HLA-G expression by human monocyte-derived dendritic cells. *Mol Immunol*. 2006 Jul;43(14):2151-60.
8. Gonen-Gross T, Achdout H, Arnon TI, Gazit R, Stern N, Horejsi V, Goldman-Wohl D, Yagel S, Mandelboim O: The CD85J/leukocyte inhibitory receptor-1 distinguishes between conformed and beta 2-microglobulin-free HLA-G molecules. *J Immunol*. 2005 Oct 15;175(8):4866-74.

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