HLA-G monoclonal antibody, clone MEM-G/9 (PE)

Catalog # MAB5059 Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against recombinant HLA-G.
Immunogen	Recombinant protein corresponding to human HLA-G refolded with beta2-microglobulin and peptide.
Host	Mouse
Reactivity	Human
Specificity	This 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. HLA-G belongs to the MHC Class I molecules (MHC Class Ib; nonclassical) and it is expressed on the surface of trophoblast cells.
Form	Liquid
Conjugation	PE
Concentration	0.1 mg/mL
Isotype	IgG1
Recommend Usage	Flow Cytometry (1:100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.2% BSA, 0.09% sodium azide)
Storage Instruction	Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Flow Cytometry

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Gene Info — HLA-G

Entrez GeneID	3135
Gene Name	HLA-G
Gene Alias	MHC-G
Gene Description	major histocompatibility complex, class I, G
Omim ID	142871 600807
Gene Ontology	Hyperlink
Gene Summary	HLA-G belongs to the HLA class I heavy chain paralogues. This class I molecule is a heterodimer consisting of a heavy chain and a light chain (beta-2 microglobulin). The heavy chain is anchored i n the membrane. HLA-G is expressed on fetal derived placental cells. The heavy chain is approxi mately 45 kDa and its gene contains 8 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the alpha1 and alpha2 domain, which both bind the peptide, exon 4 encodes the alpha3 domain, exon 5 encodes the transmembrane region, and exon 6 encodes the cytoplasmic tail. [pr ovided by RefSeq
Other Designations	HLA class I molecule|HLA-G histocompatibility antigen, class I, G|MHC class I antigen|OTTHUMP 00000039485|b2 microglobulin

Publication Reference

- Regulatory role of tryptophan degradation pathway in HLA-G expression by human monocyte-derived dendritic cells.

  Lopez AS, Alegre E, LeMaoult J, Carosella E, Gonzalez A.

  Molecular Immunology 2006 Feb; 43(14):2151.

- The CD85J/leukocyte inhibitory receptor-1 distinguishes between conformed and beta 2-microglobulin-free HLA-G molecules.

  Gonen-Gross T, Achdout H, Arnon TI, Gazit R, Stern N, Horejsi V, Goldman-Wohl D, Yagel S, Mandelboim O.

  Journal of Immunology 2005 Oct; 175(8):4866.

- Characterization of monoclonal antibodies recognizing HLA-G or HLA-E: new tools to analyze the expression of nonclassical HLA class I molecules.

  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.

  Human Immunology 2003 Mar; 64(3):315.

Application: Flow Cyt, Human, LCL, JEG-3, K-562 cells

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Pathway

- Allograft rejection
- Antigen processing and presentation
- Autoimmune thyroid disease
- Cell adhesion molecules (CAMs)
- Endocytosis
- Graft-versus-host disease
- Natural killer cell mediated cytotoxicity
- Type I diabetes mellitus

Disease

- Abortion
- Anemia
- Arthritis
- Asthma
- Autoimmune Diseases
- Behcet Syndrome
- Birth Weight
- Bronchial Hyperreactivity
- Carcinoma
- Cardiomyopathy
- Cardiovascular Diseases
- Cervical Intraepithelial Neoplasia
- Cholestasis
- Chorioamnionitis

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- Colitis
- Coronary Aneurysm
- Crohn Disease
- Cytomegalovirus Infections
- Diabetes Mellitus
- Disease Progression
- Disease Susceptibility
- Ductus Arteriosus
- Eclampsia
- Edema
- Fetal Diseases
- Fetal Membranes
- Gastrointestinal Diseases
- Genetic Predisposition to Disease
- Graft vs Host Disease
- Hepatitis
- Hepatitis C
- HIV Infections
- Hypersensitivity
- Infant
- Infection
- Infertility
- Lupus Erythematosus
- Mucocutaneous Lymph Node Syndrome
- Multiple Sclerosis
- Obstetric Labor

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- Papillomavirus Infections
- Photosensitivity Disorders
- Pneumonia
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prenatal Exposure Delayed Effects
- Psoriasis
- Purpura
- Sarcoidosis
- Thalassemia
- Tobacco Use Disorder
- Urinary Bladder Neoplasms
- Uterine Cervical Neoplasms

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