HLA-G monoclonal antibody, clone 5A6G7 (PE)

Catalog # MAB4489 Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against synthetic peptide HLA-G.
Immunogen	A synthetic peptide (conjugated with OVA) corresponding to C-terminus of human soluble HLA-G5 a nd HLA-G6.
Host	Mouse
Reactivity	Human
Specificity	This antibody allows to discriminate between soluble HLA-G protein yielded by shedding from memb rane-bound HLA-G forms that do not contain the intron 4-encoded epitope and soluble HLA-G5/HLA-G6 produced from intron 4-retaining alternatively spliced mRNAs. 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 (10 ug/mL) 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 shoul d be handled by trained staff only.

Applications

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- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)
- Immunohistochemistry (Frozen sections)
- Immunocytochemistry
- Flow Cytometry
- Enzyme-linked Immunoabsorbent Assay
- Western Blot

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

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- Modulation of HLA-G expression in human neural cells after neurotropic viral infections.

  Lafon M, Prehaud C, Megret F, Lafage M, Mouillot G, Roa M, Moreau P, Rouas-Freiss N, Carosella ED.

  Journal of Virology 2005 Dec; 79(24):15226.

  Application: Flow Cyt, ICC, IF, Human, SK-N-SH/RA cells

- Indoleamine 2,3 dioxygenase and human leucocyte antigen-G inhibit the T-cell alloproliferative response through two independent pathways.

  Le Rond S, Gonzalez A, Gonzalez AS, Carosella ED, Rouas-Freiss N.

  Immunology 2005 Nov; 116(3):297.

- Report of the Wet Workshop for Quantification of Soluble HLA-G in Essen, 2004.

  Rebmann V, Lemaoult J, Rouas-Freiss N, Carosella ED, Grosse-Wilde H.

  Human Immunology 2005 Aug; 66(8):853.

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

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

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- Hepatitis C
- HIV Infections
- Hypersensitivity
- Infant
- Infection
- Infertility
- Lupus Erythematosus
- Mucocutaneous Lymph Node Syndrome
- Multiple Sclerosis
- Obstetric Labor
- 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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