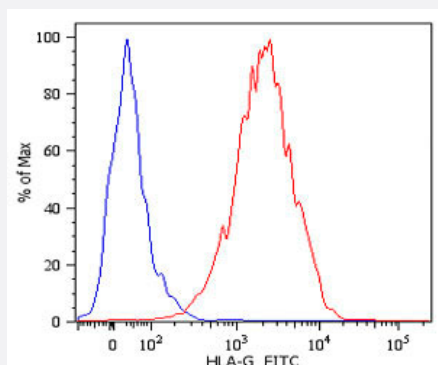


HLA-G monoclonal antibody, clone MEM-G/11

Catalog # MAB3856 Size 100 ug

Applications



Flow Cytometry

Surface staining of JEG-3 (human choriocarcinoma cell line) with HLA-G monoclonal antibody, clone MEM-G/11 (Cat # MAB3856) - FITC. Total viable cells were used for analysis.

Specification

Product Description	Mouse monoclonal antibody raised against recombinant HLA-G.
Immunogen	Recombinant protein corresponding to human HLA-G.
Host	Mouse
Reactivity	Human
Specificity	This antibody recognizes HLA-G1 antigen. 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
Isotype	IgG1
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (0.09% sodium azide)
Storage Instruction	Store at 4°C. Do not freeze. 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

- Immunoprecipitation
- Enzyme-linked Immunoabsorbent Assay
- Flow Cytometry

Surface staining of JEG-3 (human choriocarcinoma cell line) with HLA-G monoclonal antibody, clone MEM-G/11 (Cat # MAB3856) - FITC. Total viable cells were used for analysis.

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 in the membrane. HLA-G is expressed on fetal derived placental cells. The heavy chain is approximately 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. [provided by RefSeq]

Other Designations HLA class I molecule|HLA-G histocompatibility antigen, class I, G|MHC class I antigen|OTTHUMP00000039485|b2 microglobulin

Publication Reference

- [HLA-G expression in gastric carcinoma: clinicopathological correlations and prognostic impact.](#)

Murdaca G, Calamaro P, Lantieri F, Pigozzi S, Mastracci L, Grillo F, Magnani O, Ceppa P, Puppo F, Fiocca R.
Virchows Archiv 2018 May; [Epub].

Application: IHC-P, Human, Gastric carcinoma

- [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: ELISA, Flow Cyt, WB, Human, LCL, JEG-3, K-562 cells

- [Disulfide bond-mediated dimerization of HLA-G on the cell surface.](#)

Boyson JE, Erskine R, Whitman MC, Chiu M, Lau JM, Koopman LA, Valter MM, Angelisova P, Horejsi V, Strominger JL.
PNAS 2002 Dec; 99(25):16180.

Application: IHC-P, WB, Human, JAR, JEG-3 cells, Placental sections

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](#)
- [Colitis](#)
- [Coronary Aneurysm](#)
- [Crohn Disease](#)
- [Cytomegalovirus Infections](#)
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- [Disease Progression](#)
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- [Graft vs Host Disease](#)

- [Hepatitis](#)
- [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](#)