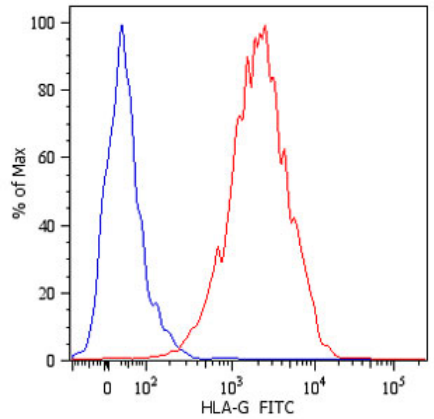
HLA-G monoclonal antibody, clone MEM-G/11 (FITC)

Catalog # MAB4520 Size 100 ug

Applications



Flow Cytometry

Surface staining of JEG-3 (human choriocarcinoma cell line) with HLA-G monoclonal antibody, clone MEM-G/11 (FITC) (Cat # MAB4520). 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
Conjugation	FITC
Concentration	1 mg/mL
Isotype	IgG1

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Recommend Usage	Flow Cytometry (1:500) 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 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

- Flow Cytometry

  Surface staining of JEG-3 (human choriocarcinoma cell line) with HLA-G monoclonal antibody, clone MEM-G/11 (FITC) (Cat # MAB4520).
  Total viable cells were used for analysis.

- Enzyme-linked Immunoabsorbent Assay

- Immunoprecipitation

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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Other Designations	HLA class I molecule|HLA-G histocompatibility antigen, class I, G|MHC class I antigen|OTTHUMP 00000039485|b2 microglobulin

Publication Reference

- 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-563 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.

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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- 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
- Diabetes Mellitus
- Disease Progression
- Disease Susceptibility
- Ductus Arteriosus
- Eclampsia
- Edema
- Fetal Diseases
- Fetal Membranes
- Gastrointestinal Diseases
- Genetic Predisposition to Disease
- Graft vs Host Disease

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- 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

Copyright © 2023 Abnova Corporation. All Rights Reserved.