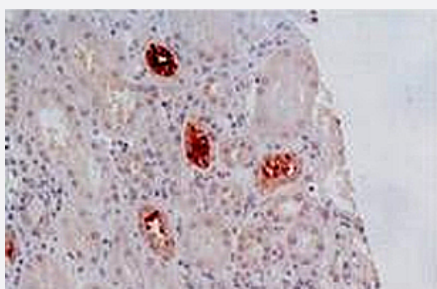


HLA-G monoclonal antibody, clone MEM-G/2

Catalog # MAB0968

Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry staining of kidney allograft biopsy (paraffin - embedded sections) with human HLA - G monoclonal antibody, clone MEM - G/2 (Cat # MAB0968) .

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant HLA-G.
Immunogen	Recombinant protein corresponding to heavy chain region (denaturated) of human HLA-G.
Host	Mouse
Reactivity	Human
Specificity	This antibody recognizes the free heavy chain of all the HLA-G isoforms.
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

- Western Blot
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry staining of kidney allograft biopsy (paraffin - embedded sections) with human HLA - G monoclonal antibody, clone MEM - G/2 (Cat # MAB0968) .

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

- [In focus in HCB.](#)

Douglas J Taatjes, Jürgen Roth.

Histochemistry and Cell Biology 2022 Dec; 158(6):513.

- [HLA-G as a prognostic marker in stage II/III colorectal cancer: not quite there yet.](#)

Alessandro Gambella, Stefano Scabini, Gabriele Zoppoli, Annalisa De Silvestri, Simona Pigozzi, Michele Paudice, Michela Campora, Roberto Fiocca, Federica Grillo, Luca Mastracci.

Histochemistry and Cell Biology 2022 Dec; 158(6):535.

Application: IHC, Human, Colorectal cancer tissues

- [Predictive value of HLA-G and HLA-E in the prognosis of colorectal cancer patients.](#)

Guo ZY, Lv YG, Wang L, Shi SJ, Yang F, Zheng GX, Wen WH, Yang AG.

Cellular Immunology 2015 Jan; 293(1):10.

Application: IHC, Human, Colorectal cancer tissues

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