

APC anti-human HLA-G Recombinant Antibody

Catalog# / Size	381807 / 25 tests 381808 / 100 tests
Clone	QA19A11
Regulatory Status	RUO
Isotype	Mouse IgG1, κ
Description	HLA-G is a nonclassical MHC class I (MHC-Ib) molecule structurally related to MHC class Ia (HLA-A, B, C). There are seven isoforms of this molecule, including membrane bound HLA-G1, -G2, -G3 and -G4 and soluble HLA-G5, -G6, and -G7. HLA-G is primarily expressed on trophoblast cells. Its expression is also found on thymic epithelial cells, cytokine-activated monocytes, macrophages/dendritic cells during viral infection, and in various tumors. HLA-G exerts its inhibitory functions to regulate immune tolerance via interaction with inhibitory receptors ILT2 (CD85j), ILT4 (CD85d), and KIR2DL4 (CD158d), which is expressed on NK cells, T cells, monocytes, dendritic cells, and B cells. HLA-G is also able to bind CD8 α/α , which may mediate positive and/or negative selection in the thymus.

Product Details

Verified Reactivity	Human
Antibody Type	Recombinant
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Red Laser (633 nm)
Application Notes	Clone QA19A11 partially blocks the binding of reported clone MEMG/9.
RRID	AB_3683424 (BioLegend Cat. No. 381807) AB_3683424 (BioLegend Cat. No. 381808)

Antigen Details

Structure	Ig
Distribution	Trophoblast cells, thymic epithelial cells, cytokine-activated monocytes, macrophages/dendritic cells during viral infection, various tumors
Function	Inhibit NK and T cell-mediated cytotoxicity and T cell proliferation, induce apoptosis of activated CD8 $^+$ T cells, induce Th2 cytokine production

Interaction	Dendritic cells, Epithelial cells, Macrophages, Monocytes
Ligand/Receptor	ILT2 (CD85j), ILT4 (CD85d), KIR2DL4 (CD158d), CD8 α / α
Cell Type	Dendritic cells, Epithelial cells, Macrophages, Monocytes
Biology Area	Immunology
Molecular Family	MHC Antigens
Antigen References	<ol style="list-style-type: none"> 1. Hunt JS, <i>et al.</i> 2005. <i>FASEB J.</i> 19:681. 2. Carosella ED, <i>et al.</i> 2008. <i>Blood.</i> 111:4862.
Gene ID	3135

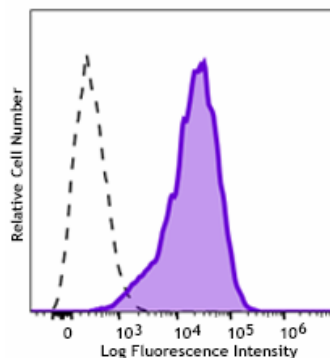
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human HLA-G Recombinant Antibody, PE anti-human HLA-G Recombinant Antibody, Alexa Fluor® 488 anti-human HLA-G Recombinant Antibody, APC anti-human HLA-G Recombinant Antibody, Brilliant Violet 421™ anti-human HLA-G Recombinant Antibody, Brilliant Violet 785™ anti-human HLA-G Recombinant Antibody

Product Data



Human cytotrophoblastic cell line (JEG-3) stained with anti-human HLA-G recombinant (clone QA19A11) APC (filled histogram) or mouse IgG1, κ isotype control (open histogram)

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