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Datasheet for ABIN125707 anti-HLAG antibody

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Overview

Quantity:	0.1 mg
Target:	HLAG
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HLAG antibody is un-conjugated
Application:	ELISA, Flow Cytometry (FACS), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunoprecipitation (IP), Immunocytochemistry (ICC)

Product Details

Immunogen:	Recombinant human HLA-G refolded with beta2-microglobulin and peptide.
Clone:	MEM-G-9
Isotype:	lgG1
Specificity:	The antibody MEM-G/9 reacts with an extracellular epitope on native form of human HLA-G1 on the cell surface as well as with soluble HLA-G5 isoform in its beta2-microglobulin associated form. Reactivity with HLA-G3 was also reported. The antibody MEM-G/9 is standard reagent thoroughly validated during 3rd International Conference on HLA-G (Paris, 2003).
No Cross-Reactivity:	Mouse
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.

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Product Details

Purity:

> 95 % (by SDS-PAGE)

Target Details

Target:	HLAG
Alternative Name:	HLA-G (HLAG Products)
Background:	Major histocompatibility complex, class I, G,Human leukocyte antigen G (HLA-G), belonging to
	MHC class I glycoproteins, plays important roles in both physiological and pathological
	immunotolerance. It gives an inhibitory signal to cytotoxic T cells, NK cells, monocytes, and
	some other immune cells. It also induces regulatory T cells and anti-inflammatory
	macrophages. HLA-G is important e.g. for maternal tolerance to the fetus, and for
	immunomodulation in particular adult tissues, such as in cornea, pancreatic islets, thymus and
	other. On the other hand, it is expressed in many solid and hematologic malignancies, where it
	contributes to evasion of the immune surveillance. HLA-G expression pattern in cancer is an
	important prognostic factor regarding a poor clinical outcome. Unlike most other MHC
	glycoproteins, HLA-G acts as an immune checkpoint molecule rather than as an antigen
	presenting molecule. It concerns both transmembrane and soluble HLA-G isoforms. Among
	other, HLA-G can promote Th2 immunological response and downregulate Th1 immunologica
	response. For its benefits regarding allograft tolerance, including embryo implantation, soluble
	HLA-G (sHLA-G) can be used as a marker of developmental potential of embryos during the
	process of in vitro fertilization. Similarly, sHLA-G concentrations in maternal serum are
	decreased in preeclampsia. Transplanted patients with increased sHLA-G serum levels have
	improved allograft acceptance. On the other hand, increased sHLA-G can also indicate
	presence of malignant (sometimes also of benign) tumor cells. Another important topic is
	induction of HLA-G expression (sometimes associated with shedding of HLA-G from the cell
	surface) by some anti-cancer or anti-viral therapies, which can weaken the therapy effect.
	Monitoring of HLA-G in patients thus has a wide usage.
Gene ID:	3135
JniProt:	P17693
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process,
	Cancer Immune Checkpoints
Application Details	
Application Notes:	Flow cytometry: Recommended dilution: 0.3-4 µg/mL, positive control: JEG-3 human

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Application Details

	choriocarcinoma cell line.
	Immunocytochemistry: Recommended dilution: 2-5 µg/mL.
	ELISA: The antibody MEM-G/9 has been tested as the capture antibody in a sandwich ELISA for
	analysis of human HLA-G in combination with antibody B2M-01 or with antibody W6/32.
	Coating antibody 10 μ g/mL, detection antibody (biotin or peroxidase conjugate) 1 μ g/mL.
	Immunohistochemistry: Recommended dilution: 1-4 µg/mL.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4
Preservative:	Azide free
Handling Advice:	Do not freeze.
Storage:	4 °C

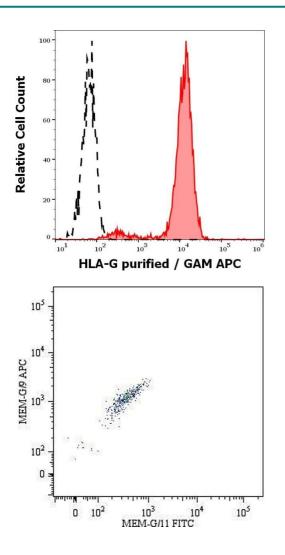
Publications

Product cited in:	Zhao, Teklemariam, Hantash: "Reassessment of HLA-G isoform specificity of MEM-G/9 and
	4H84 monoclonal antibodies." in: Tissue antigens , Vol. 80, Issue 3, pp. 231-8, (2012) (PubMed).
	López, Alegre, LeMaoult, Carosella, González: "Regulatory role of tryptophan degradation
	pathway in HLA-G expression by human monocyte-derived dendritic cells." in: Molecular
	immunology , Vol. 43, Issue 14, pp. 2151-60, (2006) (PubMed).
	Gonen-Gross, Achdout, Arnon, Gazit, Stern, Horejsí, Goldman-Wohl, Yagel, Mandelboim: "The
	CD85J/leukocyte inhibitory receptor-1 distinguishes between conformed and beta 2-
	microglobulin-free HLA-G molecules." in: Journal of immunology (Baltimore, Md. : 1950), Vol.
	175, Issue 8, pp. 4866-74, (2005) (PubMed).
	Menier, Saez, Horejsi, Martinozzi, Krawice-Radanne, Bruel, Le Danff, Reboul, Hilgert, Rabreau,
	Larrad, Pla, Carosella, Rouas-Freiss: "Characterization of monoclonal antibodies recognizing
	HLA-G or HLA-E: new tools to analyze the expression of nonclassical HLA class I molecules." in:
	Human immunology, Vol. 64, Issue 3, pp. 315-26, (2003) (PubMed).

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There are more publications referencing this product on: Product page

Images



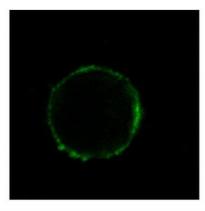
Flow Cytometry

Image 1. Separation of HLA-G trasnfected LCL cells (redfilled) from K562 cells (black-dashed) in flow cytometry analysis (surface staining) stained using anti-human HLA-G (MEM-G/9) purified antibody (concentration in sample 0.3 μ g/mL, GAM APC).

Flow Cytometry

Image 2. Double surface staining of HLA-G1 transfectants (viable cells gate) using anti-human HLA-G (MEM-G/9) APC and anti-human HLA-G (MEM-G/11) FITC

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Immunofluorescence

Image 3. Immunofluorescence staining of HLA-G1 transfectants (LCL-HLA-G1) using anti-human HLA-G () Alexa Fluor ® 488 Fab-fragment.

Please check the product details page for more images. Overall 4 images are available for ABIN125707.