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Datasheet for ABIN94372 anti-HLAG antibody (FITC)

4 Images

9 Publications



Overview

Quantity:	0.1 mg
Target:	HLAG
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HLAG antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

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 antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

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Background: Maj MH imn som mad imn othe con imp glyd pres othe resp HLA	AG A-G (HLAG Products) jor histocompatibility complex, class I, G,Human leukocyte antigen G (HLA-G), belonging to
Background: Maj MH imn som mad imn othe con imp glyd pres othe resp HLA	
MH imm som mad imm othe con imp glyc pres othe resp HLA	jor histocompatibility complex, class I, G,Human leukocyte antigen G (HLA-G), belonging to
imn son mac imn othe con imp glyc pres othe resp HLA	
som mad imm othe con imp glyc pres othe resp HLA	C class I glycoproteins, plays important roles in both physiological and pathological
mad imm othe con imp glyc pres othe resp HLA	nunotolerance. It gives an inhibitory signal to cytotoxic T cells, NK cells, monocytes, and
imn othe con imp glyc pres othe resp HLA	ne other immune cells. It also induces regulatory $ op$ cells and anti-inflammatory
othe con imp glyc pres othe resp HLA	crophages. HLA-G is important e.g. for maternal tolerance to the fetus, and for
con imp glyc pres othe resp HLA	nunomodulation in particular adult tissues, such as in cornea, pancreatic islets, thymus and
imp glyc pres othe resp HLA	er. On the other hand, it is expressed in many solid and hematologic malignancies, where it
glyc pres othe resp HLA	tributes to evasion of the immune surveillance. HLA-G expression pattern in cancer is an
pres othe resp HLA	portant prognostic factor regarding a poor clinical outcome. Unlike most other MHC
othe resp HLA	coproteins, HLA-G acts as an immune checkpoint molecule rather than as an antigen
resp HLA	senting molecule. It concerns both transmembrane and soluble HLA-G isoforms. Among
HLA	er, HLA-G can promote Th2 immunological response and downregulate Th1 immunological
	ponse. For its benefits regarding allograft tolerance, including embryo implantation, soluble
	A-G (sHLA-G) can be used as a marker of developmental potential of embryos during the
prod	cess of in vitro fertilization. Similarly, sHLA-G concentrations in maternal serum are
dec	reased in preeclampsia. Transplanted patients with increased sHLA-G serum levels have
imp	proved allograft acceptance. On the other hand, increased sHLA-G can also indicate
pres	sence of malignant (sometimes also of benign) tumor cells. Another important topic is
indu	uction of HLA-G expression (sometimes associated with shedding of HLA-G from the cell
surf	face) by some anti-cancer or anti-viral therapies, which can weaken the therapy effect.
Mor	nitoring of HLA-G in patients thus has a wide usage.
Gene ID: 313	35
UniProt: P17	7693
Pathways: Reg	gulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process,
Can	ncer Immune Checkpoints
Application Details	

Application Notes:	Flow cytometry: Recommended dilution: 1-5 µg/mL, positive control: JEG-3 human choriocarcinoma cell line.
Comment:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC.

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Application Details

Restrictions:

For Research Use only

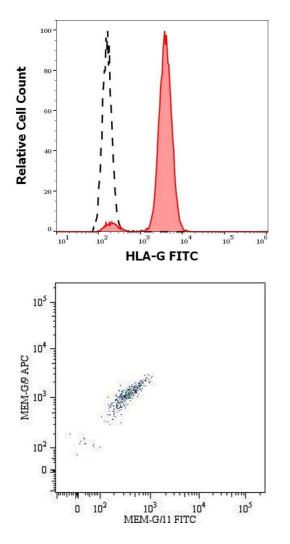
Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Handling Advice:	Do not freeze.
	Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.
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)
	Rizzo, Lanzoni, Stignani, Campioni, Alviano, Ricci, Tazzari, Melchiorri, Scalinci, Cuneo, Bonsi,
	Lanza, Bagnara, Baricordi: "A simple method for identifying bone marrow mesenchymal stroma
	cells with a high immunosuppressive potential." in: Cytotherapy , (2010) (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." ir

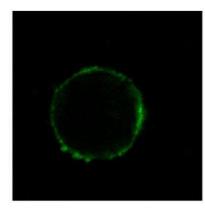
International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN94372 | 03/05/2024 | Copyright antibodies-online. All rights reserved. Human immunology, Vol. 64, Issue 3, pp. 315-26, (2003) (PubMed).

There are more publications referencing this product on: Product page

Images







Flow Cytometry

Image 1. Separation of HLA-G transfected LCL cells stained using anti-human HLA-G (MEM-G/9) FITC antibody (concentration in sample 1 μ g/mL, red-filled) from HLA-G transfected LCL cells stained using mouse IgG1 isotype control (MOPC-21) FITC antibody (concentration in sample 1 μ g/mL, same as HLA-G FITC concentration, black-dashed) in flow cytometry analysis (surface staining) of suspension of HLA-G transfected LCL cells.

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

Immunofluorescence

Image	3.	Immunofluorescence		staining	of	HLA-G	1
transfee	ctants	s (LCL-HLA-G1)	using	anti-huma	an F	HLA-G	()
Alexa Fluor ® 488 Fab-fragment.							

Please check the product details page for more images. Overall 4 images are available for ABIN94372.

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