

Product datasheet

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ARG54212 anti-HLA G antibody [87G]

Package: 50 μg Store at: -20°C

Summary

Species

Product Description Mouse Monoclonal antibody [87G] recognizes HLA G

Tested Reactivity Hu

Species Does Not React With Ms, Rat

Tested Application CyTOF®-candidate, ELISA, FACS, FuncSt, IHC-Fr

Human

Specificity The clone 87G recognizes both membrane-bound and soluble forms of HLA-G (HLA-G1 and HLA-G5).

HLA-G belongs to the MHC Class I molecules (MHC Class Ib; nonclassical) and it is expressed on the

surface of trophoblast cells.

87G blocks interaction of HLA-G with inhibitory receptors.

Host Mouse

Clonality Monoclonal

Clone 87G Isotype IgG2a

Target Name HLA G

Immunogen HLA-B27 transgenic mice were imunized with H-2 identical murine cells transfected with and expressing

genes encoding HLA-G and human beta2-microglobulin.

Conjugation Un-conjugated

Alternate Names HLA G antigen; MHC class I antigen G; HLA class I histocompatibility antigen, alpha chain G; MHC-G

Application Instructions

Application table	Application	Dilution
	CyTOF®-candidate	Assay-dependent
	ELISA	1 μg/ml
	FACS	2 μg/ml
	FuncSt	Assay-dependent
	IHC-Fr	10 μg/ml
Application Note	IHC-Fr: Incubated for 20 min at 25°C. ELISA: The clone 87G has been tested as the capture antibody in a sandwich ELISA for analysis of human HLA-G in combination with antibody W6/32. Functional studies: The clone 87G blocks interaction of HLA-G with inhibitory receptors. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	FACS and ELISA: JEG-3 human choriocarcinoma epithelial cells IHC-Fr: extravillous cytotrophoblast	

Properties

Form Liquid

Purification Purified from cell culture supernatant by protein-A affinity chromatography.

Purity > 95% (by SDS-PAGE)

Buffer PBS (pH 7.4) and 15 mM Sodium azide

Preservative 15 mM Sodium azide

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links GenelD: 3135 Human

Swiss-port # P17693 Human

Gene Symbol HLA-G

Gene Full Name major histocompatibility complex, class I, G

Background 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, Jul

2008]

Function Involved in the presentation of foreign antigens to the immune system. Plays a role in maternal

tolerance of the fetus by mediating protection from the deleterious effects of natural killer cells,

cytotoxic T-lymphocytes, macrophages and mononuclear cells. [UniProt]

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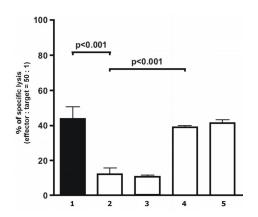
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Calculated Mw 38 kDa



ARG54212 anti-HLA G antibody [87G] Functional study image

Functional study: Analysis of cytolytical activity of Human polyclonal NK cells on target melanoma cells (M8 cell line) transfected with empty vector (Lane 1) or HLA-G1 cDNA (Lane 2-6). Blocking antibodies: Lane (1,2): none Lane (3): Isotype Mouse IgG2a control Lane (4): ARG54212 anti-HLA G antibody [87G] (5): F(ab´)2 fragment of ARG54212.