

PRODUCT INFORMATION SHEET

Monoclonal antibodies detecting human antigens

Anti-HLA-G

PURE	RUO	REF	IQP-636P	▽ 100 test
FITC	RUO	REF	IQP-636F	▽ 100 test

RUO **For Research Use Only**



Description

Clone 01G

Isotype Murine IgG1

Specificity The antibody 01G recognizes membrane-bound form of HLA-G (full-length HLA-G1), but not soluble forms. HLA-G belongs to the MHC Class I molecules (MHC Class Ib; nonclassical) and it is expressed on the surface of trophoblast cells.

Species Human

Immunogen HLA-B27 transgenic mice were immunized with H-2 identical murine cells transfected with and expressing genes encoding HLA-G and human beta2-microglobulin.

Applications FC, IP, IHC(F), ICC, ELISA. Determining optimal working dilutions by titration test.

Limitations

1. Conjugates with brighter fluorochromes, like PE and APC, will have a greater separation than those with dyes like FITC and CyQ. When populations overlap, the percentage of positive cells using a selected marker can be affected by the choice of fluorescent label.
2. Use of monoclonal antibodies in patient treatment can interfere with antigen target recognition by this reagent. This should be taken into account when samples are analyzed from patients treated in this fashion. IQ Products has not characterized the effect of the presence of therapeutic antibodies on the performance of this reagent.
3. Reagents can be used in different combinations, therefore laboratories need to become familiar performance characteristics of each antibody in relation with the combined markers in normal and abnormal samples.
4. Reagent performance can be affected by the use of anticoagulants.



Handling and Storage

Antibodies are supplied in phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4. Store the vials at 2-8°C. Monoclonal antibodies should be protected from prolonged exposure to light when conjugated with fluorochromes. Reagents are stable for the period shown on the vial label when stored properly.

Warranty Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product. IQ Products is not liable for property damage, personal injury, or economic loss caused by the product.

Characterization

To ensure consistently high-quality reagents, each batch of monoclonal antibody is tested for conformance with characteristics of a standard reagent.












Warning All products contain sodiumazide. This chemical is poisonous and hazardous. Handling should be done by trained staff only.

References

1. Ishitani A. et al., Protein Expression and Peptide Binding Suggest Unique and Interacting Functional Roles for HLA-E, F and G in Maternal-Placental Immune Recognitions. The Journal of Immunology 171, 1376 (2003).
2. Real LM, Cabrera T, Collado A, Jimenez P, Garcia A, Ruiz-Cabello F, Garrido F: Expression of HLA G in human tumors is not a frequent event. Int J Cancer. 1999 May 17;81(4):512-8.

3. Real LM, Cabrera T, Canton J, Oliva R, Ruiz-Cabello F, Garrido F: Looking for HLA-G expression in human tumours. *J Reprod Immunol.* 1999 Jul;43(2):263-73.
4. Polakova K, Russ G: Expression of the non-classical HLA-G antigen in tumor cell lines is extremely restricted. *Neoplasma.* 2000;47(6):342-8.
5. Polakova K, Bandzuchova E, Hofmeister V, Weiss EH, Hutter H, Russ G: Binding analysis of HLA-G specific antibodies to hematopoietic cells isolated from leukemia patients. *Neoplasma.* 2003;50(5):331-8.
6. Polakova K, Krcova M, Kuba D, Russ G: Analysis of HLA-G expression in malignant hematopoietic cells from leukemia patients. *Leuk Res.* 2003 Jul;27(7):643-8.
7. Wiendl H, Feger U, Mittelbronn M, Jack C, Schreiner B, Stadelmann C, Antel J, Brueck W, Meyermann R, Bar-Or A, Kieseier BC, Weller M: Expression of the immune-tolerogenic major histocompatibility molecule HLA-G in multiple sclerosis: implications for CNS immunity. *Brain.* 2005 Nov;128(Pt 11):2689-2704.

Explanation of used symbols

	Consult instructions for use
	Catalogue number
	Sufficient for
	Caution, consult accompanying document
	Keep away from (sun)light
	Biological risks
	Temperature limitation (°C)
	For Research Use Only
	Batch code
	Use by yyyy-mm-dd
	Manufacturer

		Label - tandem	Ex -max (nm)	Em -max (nm)
P	PURE	purified material	-	-
F	FITC	FITC	488	519
R	R-PE	PE	488, 532	578
C	CyQ	PE-Cy5.18	488, 532	667
A	APC		595, 633, 635, 647	660
PC	PerCP		488, 532	678
PCC	PerCP-Cy5.5		488, 532	695



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