

PRODUCT INFORMATION SHEET

Monoclonal antibodies detecting human antigens

Anti-HLA-G

PURE	RUO	REF	IQP-637P	▽ 100 test
Biotin	RUO	REF	IQP-637B	▽ 100 test

RUO **For Research Use Only**



Description

Clone 4H84

Isotype Murine IgG1

Specificity The antibody 4H84 recognizes HLA-G molecule (39 kDa). 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 amino acids 61-83 of HLA-G of human origin

Applications WB, IP, IHC(P), 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

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3. Blaschitz A, Hutter H, Dohr G: HLA Class I protein expression in the human placenta. Early Pregnancy. 2001 Jan;5(1):67-9.
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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. Polakova K, Kuba D, Russ G: The 4H84 monoclonal antibody detecting beta2m free nonclassical HLA-G molecules also binds to free heavy chains of classical HLA class I antigens present on activated lymphocytes. Hum Immunol. 2004 Feb;65(2):157-62.
8. Juch H, Blaschitz A, Daxbock C, Rueckert C, Kofler K, Dohr G: A novel sandwich ELISA for alpha1 domain based detection of soluble HLA-G heavy chains. J Immunol Methods. 2005 Dec 20;307(1-2):96-106.
9. Barrier BF, Kendall BS, Sharpe-Timms KL, Kost ER: Characterization of human leukocyte antigen-G (HLA-G) expression in endometrial adenocarcinoma. Gynecol Oncol. 2006 Oct;103(1):25-30.

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



Products
bright fluorescence

		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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