

## PRODUCT INFORMATION SHEET

Monoclonal antibodies detecting human antigens

### Anti-HLA-A+B+C+E

PURE RUO REF IQP-618P ▼ 100 test

RUO *For Research Use Only*



#### Description

**Clone** TP25.99SF

**Isotype** Murine IgG1

**Specificity** The mouse monoclonal antibody TP25.99SF recognizes HLA-ABC and HLA-E molecules, but not HLA-G. It can be used for discrimination between HLA-G and other HLA-class I antigens.

**Species** Human

**Immunogen** IFN-gamma-treated human melanoma cells Colo 38

**Summary** HLA-class I major histocompatibility (MHC) antigens are intrinsic membrane glycoproteins expressed on nucleated cells and noncovalently associated with an invariant beta2 microglobulin. They carry foreign determinants important for immune recognition by cytotoxic T cells, thus important for antiviral and anti-tumour defence. Classical human HLA-class I antigens are represented by HLA-A, HLA-B and HLA-C molecules, the non-classical by e.g. HLA-E, HLA-G.

**Applications** FC, WB, IHC(F). 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 with 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. No 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.

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## References

1. Tanabe M, Sekimata M, Ferrone S, Takiguchi M: Structural and functional analysis of monomorphic determinants recognized by monoclonal antibodies reacting with the HLA class I alpha 3 domain. J Immunol. 1992 May 15;148(10):3202-9.
  2. Paul P, Rouas-Freiss N, Moreau P, Cabestre FA, Menier C, Khalil-Daher I, Pangault C, Onno M, Fauchet R, Martinez-Laso J, Morales P, Villena AA, Giacomini P, Natali PG, Frumento G, Ferrara GB, McMaster M, Fisher S, Schust D, Ferrone S, Dausset J, Geraghty D, Carosella ED: HLA-G, -E, -F preworkshop: tools and protocols for analysis of non-classical class I genes transcription and protein expression. Hum Immunol. 2000 Nov;61(11):1177-95.
  3. Blaschitz A, Hutter H, Leitner V, Pilz S, Wintersteiger R, Dohr G, Sedlmayr P: Reaction patterns of monoclonal antibodies to HLA-G in human tissues and on cell lines: a comparative study. Hum Immunol. 2000 Nov;61(11):1074-85.
  4. Desai SA, Wang X, Noronha EJ, Zhou Q, Rebmann V, Grosse-Wilde H, Moy FJ, Powers R, Ferrone S: Structural relatedness of distinct determinants recognized by monoclonal antibody TP25.99 on beta 2-microglobulin-associated and beta 2-microglobulin-free HLA class I heavy chains. J Immunol. 2000 Sep 15;165(6):3275-83.
  5. Perosa F, Luccarelli G, Prete M, Favoino E, Ferrone S, Dammacco F: Beta 2-microglobulin-free HLA class I heavy chain epitope mimicry by monoclonal antibody HC-10-specific peptide. J Immunol. 2003 Aug 15;171(4):1918-26.
  6. Moy FJ, Desai SA, Wang X, Noronha EJ, Zhou Q, Ferrone S, Powers R: Analysis by NMR spectroscopy of the structural homology between the linear and the cyclic peptide recognized by anti-human leukocyte antigen class I monoclonal antibody TP25.99. J Biol Chem. 2000 Aug 11;275(32):24679-85.
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## 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

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		<b>Label - tandem</b>	<b>Ex -max (nm)</b>	<b>Em -max (nm)</b>
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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