



A4-813-C100

## Monoclonal Antibody to HLA-ABCE Alexa Fluor® 488 conjugated (0.1 mg)

<b>Clone:</b>	TP25.99SF
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	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.
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	IFN-gamma-treated human melanoma cells Colo 38
<b>Species Reactivity:</b>	Human
<b>Preparation:</b>	The purified antibody is conjugated with Alexa Fluor® 488 under optimum conditions. The conjugate is purified by size-exclusion chromatography.
<b>Concentration:</b>	0.1 mg/ml
<b>Storage Buffer:</b>	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
<b>Storage / Stability:</b>	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
<b>Usage:</b>	The reagent is designed for Flow Cytometry analysis.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	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 anti-viral 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.

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**Antibodies**

- References:**
- \*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.
  - \*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.
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  - \*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.
  - \*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.
  - \*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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