ARG53937
anti-HLA Class I antibody [MEM-123] (PE)

Package: 50 µg
Store at: 4°C

Summary

Product Description	PE-conjugated Mouse Monoclonal antibody [MEM-123] recognizes HLA Class I
Tested Reactivity	Hu, Bov, NHuPrm
Tested Application	FACS
Specificity	The clone MEM-123 reacts with all human classical MHC Class I molecules (major histocompatibility complex) in native cell-surface forms as well as with human HLA-G cDNA transfected cells. MHC Class I molecules (MHC Class Ia) are expressed on the surface of all human cell types. MEM-123 completely blocks binding of classical W6/32 to surface-expressed HLA-G, but does not cross-blocks the antibody MEM-G/9.
Host	Mouse
Clonality	Monoclonal
Clone	MEM-123
Isotype	IgG3
Target Name	HLA Class I
Immunogen	COS-7 African green monkey kidney cells
Conjugation	PE
Alternate Names	MHC class I antigen A*1; HLAA; HLA class I histocompatibility antigen, A-1 alpha chain

Application Instructions

Application table

Application	Dilution
FACS	2 - 4 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

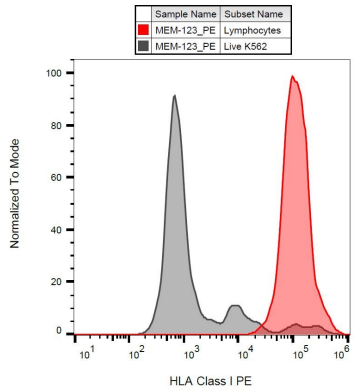
Form	Liquid
Purification Note	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use.
Buffer	PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA
Preservative	15 mM Sodium azide
Stabilizer	0.2% (w/v) high-grade protease free BSA
Concentration	0.1 mg/ml
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. 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	GeneID: 3105 Human Swiss-port # P30443 Human
Gene Symbol	HLA-A
Gene Full Name	major histocompatibility complex, class I, A
Background	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. Human HLA-class I antigens are represented by HLA-A, HLA-B and HLA-C molecules.
Function	Involved in the presentation of foreign antigens to the immune system. [UniProt]
Research Area	Immune System antibody
Calculated Mw	40 kDa
PTM	Polyubiquitinated in a post ER compartment by interaction with human herpesvirus 8 MIR1 protein. This targets the protein for rapid degradation via the ubiquitin system (By similarity).

Images



ARG53937 anti-HLA Class I antibody [MEM-123] (PE) FACS image

Flow Cytometry: K562 cells (grey) and Lymphocytes (red) stained with ARG53937 anti-HLA Class I antibody [MEM-123] (PE).