

ARG53945 anti-HLA E antibody [MEM-E/07] (Biotin)

Package: 50 µg
Store at: 4°C

Summary

Product Description	Biotin-conjugated Mouse Monoclonal antibody [MEM-E/07] recognizes HLA E
Tested Reactivity	Hu
Tested Application	FACS
Specificity	The clone MEM-E/07 recognized native surface-expressed HLA-E, but not denaturated heavy chain of HLA-E. HLA-E belongs to the MHC Class I molecules (MHC Class Ib; nonclassical) and it is expressed on many types of the human cells. The published results revealed that the antibody cross-reacts with some classical MHC Class I molecules (MHC Class Ia): HLA-B7 (strongly), HLA-B8 (moderately), HLA-B27, -B44 (weakly).
Host	Mouse
Clonality	Monoclonal
Clone	MEM-E/07
Isotype	IgG1
Target Name	HLA E
Immunogen	Bacterially expressed recombinant HLA-E refolded with beta2-microglobulin and peptide.
Conjugation	Biotin
Alternate Names	MHC class I antigen E; QA1; EA2.1; HLA-6.2; EA1.2; MHC; HLA class I histocompatibility antigen, alpha chain E

Application Instructions

Application table	Application	Dilution
	FACS	1 - 12 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

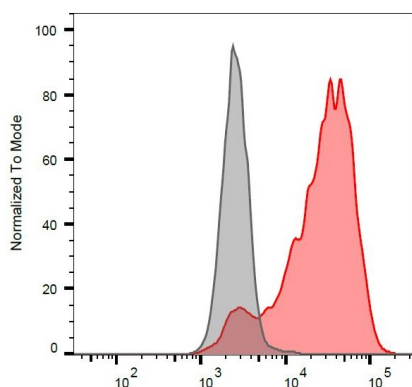
Properties

Form	Liquid
Purification Note	The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	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.

Bioinformation

Database links	GeneID: 3133 Human Swiss-port # P13747 Human
Gene Symbol	HLA-E
Gene Full Name	major histocompatibility complex, class I, E
Background	HLA-E belongs to the HLA class I heavy chain paralogues. This class I molecule is a heterodimer consisting of a heavy chain and a light chain (beta-2 microglobulin). The heavy chain is anchored in the membrane. HLA-E binds a restricted subset of peptides derived from the leader peptides of other class I molecules. The heavy chain is approximately 45 kDa and its gene contains 8 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the alpha1 and alpha2 domains, which both bind the peptide, exon 4 encodes the alpha3 domain, exon 5 encodes the transmembrane region, and exons 6 and 7 encode the cytoplasmic tail. [provided by RefSeq, Jul 2008]
Function	Preferably binds to a peptide derived from the signal sequence of most HLA-A, -B, -C and -G molecules. [UniProt]
Research Area	Immune System antibody
Calculated Mw	40 kDa

Images



ARG53945 anti-HLA E antibody [MEM-E/07] (Biotin) FACS image

Flow Cytometry: HLA-E transfectants stained with ARG53945 anti-HLA E antibody [MEM-E/07] (Biotin) at 4 µg/ml dilution, followed by Streptavidin-APC (red). Blank sample (grey).