

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	<p>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.</p> <p>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).</p>
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.

Note

For laboratory research only, not for drug, diagnostic or other 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]

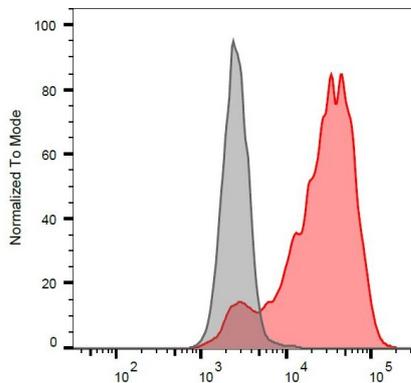
Research Area

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).