ARG63018
anti-HLA E antibody [MEM-E/06]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [MEM-E/06] recognizes HLA E
Tested Reactivity	Hu, NHuPrm
Tested Application	FACS, IHC-P, IP
Specificity	The clone MEM-E/06 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 showed that the antibody cross-reacts with some classical MHC Class I molecules (HLA-A3, -A11, -B7). However, the recent Workshop I Session on the 3rd International Conference on HLA-G (Paris, July 2003) confirmed that the antibody exhibits much broader cross-reactivity classical MHC Class I antigens, namely with HLA-A24, -A32, -B8, -B15, -B27, -B35, -B44, -B54, -C3, -C4, -C5, -C7.
Host	Mouse
Clonality	Monoclonal
Clone	MEM-E/06
Isotype	IgG1
Target Name	HLA E
Immunogen	Bacterially expressed recombinant HLA-E refolded with beta2-microglobulin and peptide.
Conjugation	Un-conjugated
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 - 4 µg/ml
IHC-P	10 µg/ml
IP	Assay-dependent

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	IHC-P: Spleen.

Properties

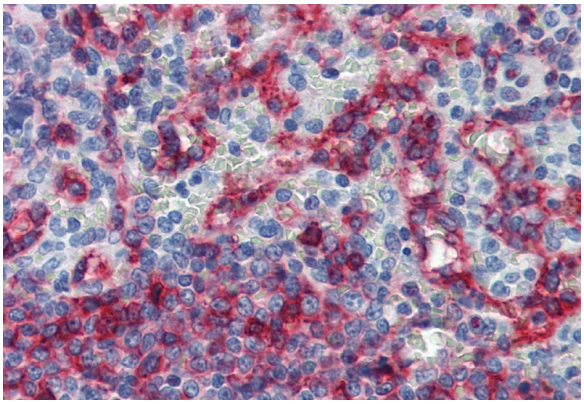
Form	Liquid
Purification	Purified from ascites by protein-A affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide

Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. 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



ARG63018 anti-HLA E antibody [MEM-E/06] IHC-P image

Immunohistochemistry: Human spleen (paraffin sections) stained with ARG63018 anti-HLA E antibody [MEM-E/06].