

Datasheet for ABIN94356

anti-HLA-E antibody

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Overview

Quantity:	0.1 mg
Target:	HLA-E
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HLA-E antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Bacterially expressed recombinant HLA-E refolded with beta2-microglobulin and peptide.
Clone:	MEM-E-07
Isotype:	IgG1
Specificity:	The antibody MEM-E/07 recognizes an extracellular epitope on 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).
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	HLA-E
Alternative Name:	HLA-E (HLA-E Products)
Background:	Major histocompatibility complex, class I, E,HLA-E (human leukocyte antigen E) is a non-classical MHC I antigen, which is important for dialogue with NK cells and their regulation through interaction with CD94/NKG2 receptor. Like other MHC I molecules, transmembrane HLA-E molecule (45 kDa) associates with beta2 microglobulin. Unlike HLA-G, expression of HLA-E molecules is not so restricted, but it has been detected at least at mRNA level in virtually all cells and tissues examined. In peripheral blood, HLA-E protein is expressed at least in all mononuclear cells, but in different quantity (B cells and monocytes more than T cells and NK cells).,HLA class I histocompatibility antigen, alpha chain E, MHC class I antigen E
Gene ID:	3133
UniProt:	P13747
Pathways:	Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process

Application Details

Application Notes:	Immunohistochemistry (paraffin sections): Recommended dilution: 10 µg/mL, positive tissue: spleen. Flow cytometry: Recommended dilution: 1-4 µg/mL
Restrictions:	For Research Use only

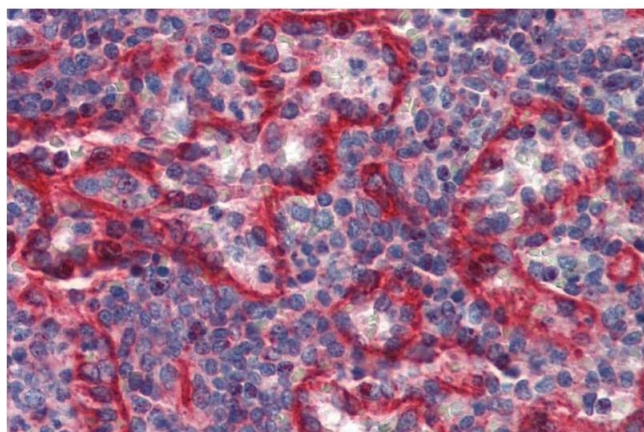
Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

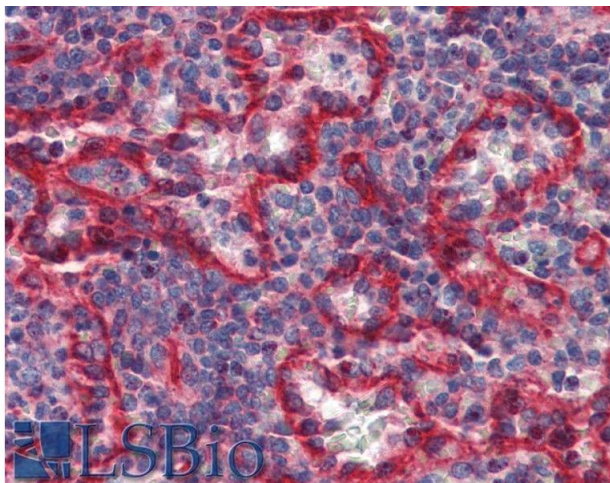
- Product cited in:
- Nachmani, Zimmermann, Oiknine Djian, Weisblum, Livneh, Khanh Le, Galun, Horejsi, Isakov, Shomron, Wolf, Hengel, Mandelboim: "MicroRNA editing facilitates immune elimination of HCMV infected cells." in: **PLoS pathogens**, Vol. 10, Issue 2, pp. e1003963, (2014) ([PubMed](#)).
- Allard, Oger, Vignard, Percier, Fregni, Périer, Caignard, Charreau, Bernardeau, Khammari, Dréno, Gervois: "Serum soluble HLA-E in melanoma: a new potential immune-related marker in cancer." in: **PLoS ONE**, Vol. 6, Issue 6, pp. e21118, (2011) ([PubMed](#)).
- Lo Monaco, Tremante, Cerboni, Melucci, Sibilio, Zingoni, Nicotra, Natali, Giacomini: "Human leukocyte antigen E contributes to protect tumor cells from lysis by natural killer cells." in: **Neoplasia (New York, N.Y.)**, Vol. 13, Issue 9, pp. 822-30, (2011) ([PubMed](#)).
- Soni, Karande: "Glycodelin A suppresses the cytolytic activity of CD8+ T lymphocytes." in: **Molecular immunology**, Vol. 47, Issue 15, pp. 2458-66, (2010) ([PubMed](#)).
- Das, Long: "Lytic granule polarization, rather than degranulation, is the preferred target of inhibitory receptors in NK cells." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 185, Issue 8, pp. 4698-704, (2010) ([PubMed](#)).
- There are more publications referencing this product on: [Product page](#)

Images



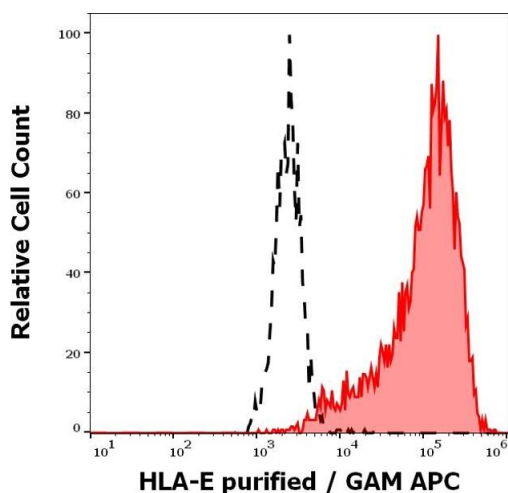
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry staining of human spleen (paraffin sections) with anti-HLA-E (clone MEM-E/07).



Immunohistochemistry

Image 2. Immunohistochemistry staining of human spleen (paraffin sections) with anti-HLA-E (clone MEM-E/07). Commercially tested by LifeSpan BioSciences.



Flow Cytometry

Image 3. Separation of HLA-E transfected LCL cells stained using anti-human HLA-E (MEM-E/07) purified antibody (concentration in sample 2 µg/mL, red-filled) from HLA-E transfected LCL cells stained using mouse IgG1 isotype control (MOPC-21) purified antibody (concentration in sample 2 µg/mL, same as HLA-E purified antibody concentration, black-dashed) in flow cytometry analysis (surface staining).