

Datasheet for ABIN94352
anti-HLA-E antibody

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Overview

Quantity:	0.1 mg
Target:	HLA-E
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HLA-E antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Recombinant human HLA-E denaturated heavy chain.
Clone:	MEM-E-02
Isotype:	IgG1
Specificity:	The antibody MEM-E/02 specifically reacts with an extracellular epitope on denaturated heavy chain of human HLA-E. HLA-E belongs to the MHC Class I molecules (MHC Class Ib, nonclassical) and it is expressed on the surface of all human cell types.
Cross-Reactivity (Details):	Human, Non-Human Primates
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 , Human Leukocyte Antigen (HLA) in Adaptive Immune Response

Application Details

Application Notes:	Immunohistochemistry (paraffin sections): Recommended dilution: 5-10 µg/mL, positive control: human placenta, heat antigen retrieval (sodium citrate), incubation with mAb: 1 hour / RT, detection DAB.
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: Platonova, Cherfils-Vicini, Damotte, Crozet, Vieillard, Validire, André, Dieu-Nosjean, Alifano, Régnard, Fridman, Sautès-Fridman, Cremer: "Profound coordinated alterations of intratumoral NK cell phenotype and function in lung carcinoma." in: **Cancer research**, Vol. 71, Issue 16, pp. 5412-22, (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](#)).
- Dambaeva, Bondarenko, Grendell, Kravitz, Durning, Golos: "Non-classical MHC-E (Mamu-E) expression in the rhesus monkey placenta." in: **Placenta**, Vol. 29, Issue 1, pp. 58-70, (2008) ([PubMed](#)).
- Menier, Saez, Horejsi, Martinozzi, Krawice-Radanne, Bruel, Le Danff, Reboul, Hilgert, Rabreau, Larrad, Pla, Carosella, Rouas-Freiss: "Characterization of monoclonal antibodies recognizing HLA-G or HLA-E: new tools to analyze the expression of nonclassical HLA class I molecules." in: **Human immunology**, Vol. 64, Issue 3, pp. 315-26, (2003) ([PubMed](#)).