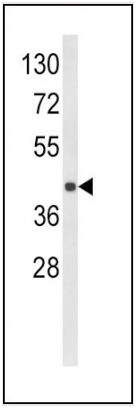
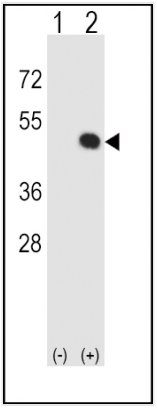
HLA Class 1 Antigen E (HLAE) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HLA Class 1 Antigen E (HLAE), Polyclonal Antibody
Full Product Name	HLA Class 1 Antigen E (HLA Class I Histocompatibility Antigen alpha Chain E, HLAE, HLA-E, HLA-6.2, EA1.2, EA2.1, Major Histocompatibility Complex Class I E, MHC Class I Antigen E, QA1) (APC)
Product Gene Name	anti-HLAE antibody
Product Synonym Names	Major Histocompatibility Complex Class I; E; DKFZp686P19218
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human HLA-E.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Do not freeze APC conjugates. Light sensitive. Aliquots are stable for at least 6 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	40,157 Da
OMIM	143010
3D Structure	ModBase 3D Structure for P13747
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 108-135 in the central region of human HLA-E, UniProt Accession #P13747.
Conjugate	APC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-HLAE antibody	Antibodies; HLA
Applications Tested/Suitable for anti-HLAE antibody	Western Blot (WB), FLISA
Application Notes for anti-HLAE antibody	WB: 1:100-1:500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-HLAE antibody	MBS6480921 is an antibody targeting HLAE. Also known as HLA Class 1 Antigen E (HLA Class I Histocompatibility Antigen alpha Chain E, HLAE, HLA-E, HLA-6.2, EA1.2, EA2.1, Major Histocompatibility Complex Class I E, MHC Class I Antigen E, QA1) (APC). Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-HLAE antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-HLAE antibody
Western blot analysis of MDA-MB231 cell line lysates (35ug/lane) using H6098-68B. HLA-E (arrow) was detected using the purified Pab.



Western Blot (WB) of anti-HLAE antibody
Western blot analysis of HLA-E (arrow) of 293 cell lysates (2ug/lane) using H6098-68B either nontransfected (Lane 1) or transiently transfected (Lane 2) with the HLA-E gene.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HLAE. It may not necessarily be applicable to this product.

NCBI GI #	62912479
NCBI GeneID	3133
NCBI Accession #	NP_005507.3
UniProt Primary Accession #	P13747
UniProt Secondary Accession #	Q30169; Q9BT83; Q9GIY7; Q9GIY8
UniProt Related Accession #	P13747
GenBank Nucleotide #	NM_005516.5
NCBI Official Full Name	HLA class I histocompatibility antigen, alpha chain E
NCBI Official Synonym Full Names	major histocompatibility complex, class I, E
NCBI Official Symbol	HLA-E
NCBI Official Synonym Symbols	MHC; QA1; EA1.2; EA2.1; HLA-6.2
UniProt Protein Name	HLA class I histocompatibility antigen, alpha chain E
UniProt Synonym Protein Names	MHC class I antigen E
UniProt Gene Name	HLA-E
UniProt Synonym Gene Names	HLA-6.2; HLAE
UniProt Entry Name	HLAE_HUMAN
NCBI Protein Information	HLA class I histocompatibility antigen, alpha chain E; HLA class I histocompatibility antigen, E alpha chain; MHC HLA-E alpha-1; MHC HLA-E alpha-2.1; MHC class I antigen E; lymphocyte antigen
NCBI Summary for HLAE	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]

UniProt Comments for HLAE	HLA-E: Preferably binds to a peptide derived from the signal sequence of most HLA-A, -B, -C and -G molecules. Belongs to the MHC class I family. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 6p21.3 Cellular Component: Golgi membrane; phagocytic vesicle membrane; cell surface; early endosome membrane; plasma membrane; MHC class I protein complex Molecular Function: peptide antigen binding; MHC class I protein binding; beta-2-microglobulin binding; receptor binding Biological Process: regulation of immune response; antigen processing and presentation of peptide antigen via MHC class I; positive regulation of T cell mediated cytotoxicity; antigen processing and presentation of exogenous peptide antigen via MHC class I, TAP-independent; cytokine and chemokine mediated signaling pathway; positive regulation of natural killer cell mediated immunity; regulation of natural killer cell mediated immunity; antigen processing and presentation of exogenous peptide antigen via MHC class I; antigen processing and presentation of exogenous peptide antigen via MHC class I, TAP-dependent; innate immune response; antigen processing and presentation of endogenous peptide antigen via MHC class Ib; protection from natural killer cell mediated cytotoxicity
Research Articles on HLAE	**1.** Transgenic hCD46/HLA-E expression reduced humoral xenoresponses since all were downregulated during ex vivo xenoperfusion of hCD46/HLA-E double transgenic pig forelimbs with human blood.
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