



# HLAE Monoclonal Antibody

<b>Catalog No</b>	BYmab-07806
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human
<b>Applications</b>	WB
<b>Gene Name</b>	HLA-E HLA-6.2 HLAE
<b>Protein Name</b>	HLA class I histocompatibility antigen, alpha chain E (MHC class I antigen E)
<b>Immunogen</b>	Synthesized peptide derived from part region of human protein
<b>Specificity</b>	HLAE Monoclonal Antibody detects endogenous levels of protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
<b>Source</b>	Monoclonal, Mouse,IgG
<b>Purification</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	
<b>Observed Band</b>	39kD
<b>Cell Pathway</b>	Cell membrane ; Single-pass type I membrane protein. Golgi apparatus membrane .; [Soluble HLA class I histocompatibility antigen, alpha chain E]: Secreted .
<b>Tissue Specificity</b>	Expressed in secretory endometrial cells during pregnancy (at protein level). The expression in nonlymphoid tissues is restricted to endothelial cells from all types of vessels, including arteries, veins, capillaries, and lymphatics (at protein level). In lymphoid organs, it is mainly expressed in endothelial venules, B and T cells, monocytes, macrophages, NK cells and megakaryocytes (at protein level).
<b>Function</b>	caution:The existence of allele E*0102 (PubMed:3260916) and allele E*0104 (PubMed:1977695) is uncertain. The alleles could not be confirmed in further studies (PubMed:12445303).,function:Preferably binds to a peptide derived from the signal sequence of most HLA-A, -B, -C and -G molecules.,polymorphism:The following alleles of E-1 are known: E*0101, E*0102, E*0103 and E*0104. The sequence shown is that of E*0101.,similarity:Belongs to the MHC class I family.,similarity:Contains 1 Ig-like C1-type (immunoglobulin-like)

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domain.,subunit:Heterodimer of an alpha chain and a beta chain (beta-2-microglobulin).,

## 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],

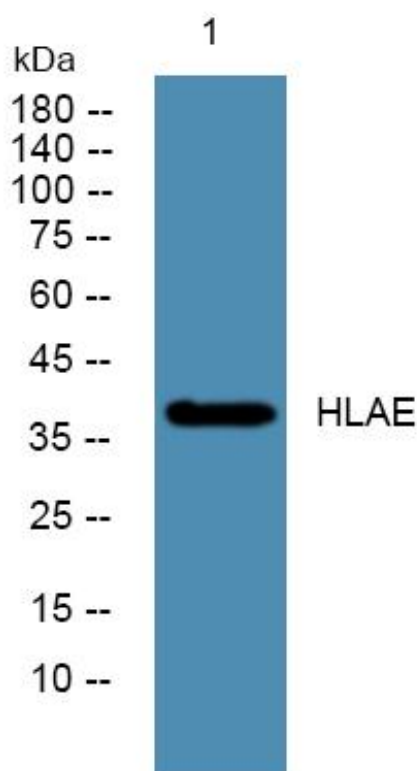
## matters needing attention

Avoid repeated freezing and thawing!

## Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western Blot analysis of various cells using HLA-E Monoclonal Antibody

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