

## Recombinant Human HLA-E cell lysate

Cat. No. HLA-E-800HCL Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Description</b>	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.
<b>Size</b>	100 ul
<b>Storage Buffer</b>	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
<b>Applications</b>	Western Blot;

### GENE INFORMATION

<b>Gene Name</b>	HLA-E major histocompatibility complex, class I, E [ Homo sapiens ]
<b>Official Symbol</b>	HLA-E
<b>Synonyms</b>	HLA-E; major histocompatibility complex, class I, E; HLA class I histocompatibility

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	antigen, alpha chain E; MHC HLA-E alpha-1; lymphocyte antigen; MHC HLA-E alpha-2.1; MHC class I antigen E; HLA class I histocompatibility antigen, E alpha chain; MHC; QA1; EA1.2; EA2.1; HLA-6.2; DKFZp686P19218;
<b>Gene ID</b>	3133
<b>mRNA Refseq</b>	NM_005516
<b>Protein Refseq</b>	NP_005507
<b>MIM</b>	143010
<b>UniProt ID</b>	P13747
<b>Chromosome Location</b>	6p21.3
<b>Pathway</b>	Adaptive Immune System, organism-specific biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Antigen Presentation: Folding, assembly and peptide loading of class I MHC, organism-specific biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Antigen processing-Cross presentation, organism-specific biosystem;
<b>Function</b>	MHC class I receptor activity;

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