

# Product Information

## **MemDX™ Membrane Protein Human HLA-E (Major histocompatibility complex, class I, E) expressed in E.coli for Antibody Discovery**

Cat. No.: **MP1420J**

This product is for research use only and is not intended for diagnostic use.

This product is a 48.7 kDa Human HLA-E membrane protein expressed in E.coli. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Specifications

#### **Host Species**

Human

#### **Target Protein**

HLA-E

#### **Protein Length**

Partial (22-305aa)

#### **Protein Class**

Human Leukocyte Antigen

#### **Molecular Weight**

48.7 kDa

#### **Sequence**

GSHSLKYFHTSVSRPGRGEPFISVG YVDDTQFVRFDNDAASPRMVPRAPWMEQEGSEYWDRETRSARDTAQIFRVNLRTRLRGY

### Product Description

#### **Expression Systems**

E.coli

#### **Tag**

N-6xHis-SUMO

#### **Form**

Liquid or Lyophilized powder

#### **Reconstitution**

Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration).

#### **Purity**

>90% as determined by SDS-PAGE

### Buffer

Liquid: Tris/PBS-based buffer, 5%-50% glycerol

Lyophilized powder: Tris/PBS-based buffer, 6% Trehalose, pH 8.0

### Storage

Store at +4°C for up to one week or several months at -80°C

## Target

### Target Protein

HLA-E

### Full Name

Major histocompatibility complex, class I, E

### Introduction

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.

### Alternative Names

HLA-E; HLA-6.2; HLA-EHLA class I histocompatibility antigen; alpha chain E; MHC class I antigen E) [Cleaved into: Soluble HLA class I histocompatibility antigen; alpha chain E; sHLA-E)]; QA1

### Gene ID

[3133](#)

### UniProt ID

[P13747](#)