

Product Information

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

Cat. No.: **MP1419J**

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

This product is a 36.7 kDa Human HLA-E membrane protein expressed in Baculovirus. 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

36.7 kDa

Sequence

GSHSLKYFHTSVSRPGRGEPRFISVGYYDDTQFVRFDNDAASPRMVPRAPWMEQEGSEYWDRETRSARDTAQIFRVNLRTRLRGY

Product Description

Expression Systems

Baculovirus

Tag

N-10xHis and C-Myc

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

>85% 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](#)