

Product Information

MemDX™ Membrane Protein Human HLA-G (Major histocompatibility complex, class I, G)
Expressed in *E.coli* with 6xHis and SUMO tag at the N-terminus for Antibody Discovery,
Partial (25-308aa)

Cat. No.: **MPX4232K**

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

This product is a 48.7kDa Human HLA-G 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-G

Protein Length

Partial (25-308aa)

Protein Class

Immunity

Molecular Weight

48.7kDa

TMD

1

Sequence

GSLSMRYFSAAVSRPGRGEPRIAMGYVDDTQFVRFSDSACPRMEPRAPWVEQEGPEYWEEETRNTKAHAQTDRMNLQTLRG

Product Description

Expression Systems

E.coli

Tag

6xHis and SUMO tag at the N-terminus

Protein Format

Soluble

Form

Liquid or Lyophilized powder

Purity

>85% as determined by SDS-PAGE.

Buffer

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

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target**Target Protein**

HLA-G

Full Name

Major histocompatibility complex, class I, G

Introduction

HLA-G 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-G is expressed on fetal derived placental cells. 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 domain, which both bind the peptide, exon 4 encodes the alpha3 domain, exon 5 encodes the transmembrane region, and exon 6 encodes the cytoplasmic tail.

Alternative Names

HLA-G; MHC-G; HLA class I histocompatibility antigen, alpha chain G; HLA G antigen; HLA-G histocompatibility antigen, class I, G; MHC class I antigen G; MHC class Ib antigen; b2 microglobulin; mutant MHC class I antigen; mutant MHC class Ib antigen; Major histocompatibility complex, class I, G

Gene ID

[3135](#)

UniProt ID

[P17693](#)