

Product Information

MemDX™ Membrane Protein Human HLA-G (Major histocompatibility complex, class I, G)

Full Length

Cat. No.: **MPC2887K**

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

This product is a made-to-order Human HLA-G membrane protein expressed in HEK293. 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

Full length

Protein Class

Immunity

TMD

1

Sequence

MVVMAPRTLFLLLSGALTLTETWAGSHSMRYFSAAVSRPGRGEPFIAMG
YVDDTQFVRFDSDSACPRMEPRAPWVEQEGPEYWEEETRNTKAHAQTDRM
NLQTLRGYYNQSEASSHTLQWMIGCDLGSDGRLLRGYEQYAYDGKDYLAL
NEDLRSWTAADTAAQISKRKCEAANVAEQRRAYLEGTCVEWLHRYLENGK
EMLQRADPPKTHVTHHPVFDYEATLRCWALGFYPAEILTWQRDGEDQTQ
DVELVETRPAGDGTQKWAAVVPSGEEQRYTCHVQHEGLPEPLMLRWKQ
SSLPTIPIMGIVAGLVVLAAVVTGAAVA AVLWRKKSSD

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°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](#)