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Product Information

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

Cat. No.: **MP0060J**
This product is for research use only and is not intended for diagnostic use.

This product is a 38.3 kDa Human HLA-G membrane protein expressed in HEK293T. 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
Transmembrane

Molecular Weight
38.3 kDa

TMD
1

Sequence
MVVMAPRTLFLLLSGALTLTETWAGSHSMRYFSAAVSRPSRGEPRFIAMGYVDDTQFVRFDSDSACPRME
PRAPWVEREGPEYWEEETRNTKAHAQTDRMNLQTLRGYYNQSEASSHTLQWMIGCDLGSDGRLLRGYEQY
AYDGKDYLALNEDLRSWTAADTAAQISKRKCEAANVAEQRRAYLEGTCVEWLHRYLENGKEMLQRADPPK
THVTHHPVFDYEATLRCWALGFYPAEIILTWQRDGEDQTQDVELVETKPAGDGTFQKWAAVVVPSGEEQR
YTCHVQHEGLPEPLMLRWKQSSLPTIPIMGIVAGLVVLAAVVTGAAVAAVLWRKKSSD

Product Description

Expression Systems
HEK293T

Tag
C-Myc/DDK

Form
Liquid

Purification

Anti-DDK affinity column followed by conventional chromatography steps

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

Storage

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

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

MHC-G; b2 microglobulin; mutant MHC class I antigen; MHC class Ib antigen

Gene ID

3135

UniProt ID

P17693

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