Recombinant Full Length Human HLA-G Protein, GST-tagged

Cat. No. HLA-G-651HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human HLA-G(1 a.a. - 338 a.a.) fused with GST tag at N-terminal was expressed in Wheat germ.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	338 amino acids
Description	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.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	63.69 kDa
AA Sequence	MVVMAPRTLF LLLSGALTLT ETWAGSHSMR YFSAAVSRPS RGEPRFIAMG YVDDTQFVRF DSDSACPRME PRAPWVEREG PEYWEEETRN TKAHAQTDRM NLQTLRGYYN QSEASSHTLQ WMIGCDLGSD GRLLRGYEQY AYDGKDYLAL NEDLRSWTAA DTAAQISKRK CEAANVAEQR RAYLEGTCVE WLHRYLENGK

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	EMLQRADPPK THVTHHPVFD YEATLRCWAL GFYPAEIILT WQRDGEDQTQ DVELVETKPA GDGTFQKWAA VVVPSGEEQR YTCHVQHEGL PEPLMLRWKQ SSLPTIPIMG IVAGLVVLAA VVTGAAVAAV LWRKKSSD
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	HLA-G major histocompatibility complex, class I, G [Homo sapiens]
Official Symbol	HLA-G
Synonyms	HLA-G; major histocompatibility complex, class I, G; HLA G histocompatibility antigen, class I, G; HLA class I histocompatibility antigen, alpha chain G; b2 microglobulin; HLA G antigen; HLA class I molecule; MHC class I antigen G; HLA-G histocompatibility antigen, class I, G; MHC-G
Gene ID	3135
mRNA Refseq	NM_002127
Protein Refseq	NP_002118
MIM	142871
UniProt ID	P17693

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