

# APC-equivalent Human HLA-G&B2M&Peptide (RIIPRHLQL) Tetramer Protein



Cat. No. HLG-HM40GTC

## Description

<b>Source</b>	Recombinant APC-equivalent Human HLA-G&B2M&Peptide (RIIPRHLQL) Tetramer Protein is expressed from HEK293 with His tag at the C-terminus. It contains Gly25-Thr305 (HLA-G), Ile21-Met119 (B2M) and RIIPRHLQL peptide.
<b>Accession</b>	P17693-1(HLA-G)&P61769(B2M)&RIIPRHLQL
<b>Molecular Weight</b>	The protein has a predicted MW of 301.2 kDa.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.

## Formulation and Storage

<b>Formulation</b>	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

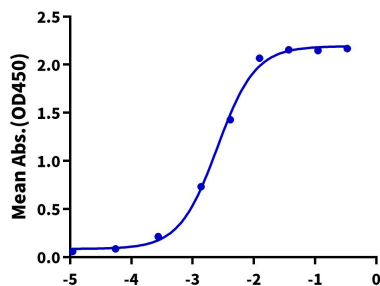
HLA-G is a molecule that was first known to confer protection to the fetus from destruction by the immune system of its mother, thus critically contributing to fetal-maternal tolerance. The first functional finding constituted the basis for HLA-G research and can be summarized as such: HLA-G, membrane-bound or soluble, strongly binds its inhibitory receptors on immune cells (NK, T, B, monocytes/dendritic cells), inhibits the functions of these effectors, and so induces immune inhibition.

## Assay Data

### ELISA Data

#### APC-equivalent Human HLA-G&B2M&Peptide (RIIPRHLQL), His Tag ELISA

0.05µg APC-equivalent Human HLA-G&B2M&Peptide (RIIPRHLQL), His Tag Per Well



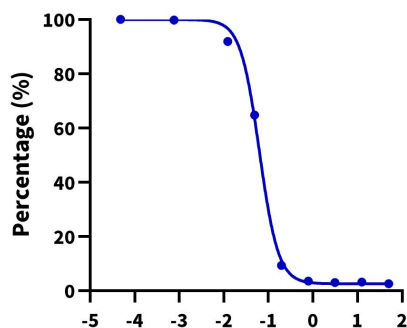
Immobilized APC-equivalent Human HLA-G&B2M&Peptide (RIIPRHLQL) Tetramer, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-HLA-G&B2M&Peptide (RIIPRHLQL) Antibody, hFc Tag with the EC50 of 2.5ng/ml determined by ELISA (QC Test).

Log Anti-HLA-G&B2M&Peptide (RIIPRHLQL) Antibody, hFc Tag Conc.(µg/ml)

### Blocking Data

#### Inhibition of Human LILRB2 and HLA-G Binding

0.2µg Human LILRB2, mFc Tag Per Well



Serial dilutions of Anti-LILRB2 Antibody were added into APC-equivalent Human HLA-G&B2M&Peptide (RIIPRHLQL) Tetramer, His Tag: Human LILRB2, mFc Tag binding reactions. The half maximal inhibitory concentration (IC50) is 62.7 ng/ml.

Log Anti-LILRB2 Antibody, hFc Tag Conc.(µg/ml)