

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



Cat. No. HLG-HM40GTC

Description	
Source	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.
Accession	P17693-1(HLA-G)&P61769(B2M)&RIIPRHLQL
Molecular Weight	The protein has a predicted MW of 301.2 kDa.
Endotoxin	Less than 1 EU per µg by the LAL method.

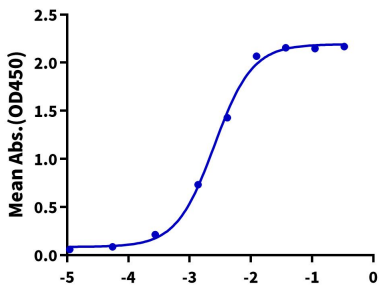
Formulation and Storage	
Formulation	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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

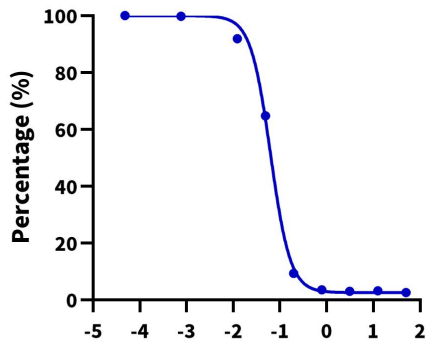
APC-equivalent Human HLA-G&B2M&Peptide (RIIPRHLQL), His Tag ELISA
0.05µg APC-equivalent Human HLA-G&B2M&Peptide (RIIPRHLQL), His Tag Per Well



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).

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.