Human HLA-A*02:01&B2M&WT-1 (RMFPNAPYL) Monomer Protein

HA210202

Product name:	Human HLA-A*02:01&B2M&WT-1 (RMFPNAPYL) Monomer Protein
Species reactivity:	Human
Protein construction description:	Recombinant Human HLA-A*02:01&B2M&WT-1 (RMFPNAPYL) Monomer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Gly25-Thr305(HLA-A*02:01),Ile21-Met119(B2M) and RMFPNAPYL peptide.
Background:	The WT1 protein plays a role in cell growth, the process by which cells mature to perform specific functions (differentiation), and the self-destruction of cells (apoptosis). WT1 is differentially expressed in serous, endometrioid, clear cell, and mucinous carcinomas of the peritoneum, fallopian tube, ovary, and endometrium.The Human HLA-A*0201 WT-1 (RMFPNAPYL) complex Protein is a complex of HLA-A*0201 of the MHC Class I, B2M and RMFPNAPYL peptide of the WT-1.
Purity:	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC
Endotoxin:	Less than 1EU per μg by the LAL method.
Source:	HEK293
Accession:	A0A140T913(HLA-A*02:01)&P61769(B2M)&RMFPNAPYL
Predicted molecular mass:	The protein has a predicted MW of 50.5 kDa. Due to glycosylation, the protein migrates to 52-60 kDa based on Tris-Bis PAGE result.
Formulation:	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage:	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Images

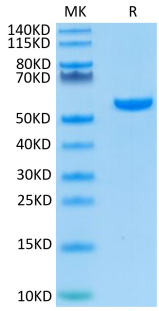

Fig1: Human HLA-A*02:01&B2M&WT-1 (RMFPNAPYL) Monomer on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

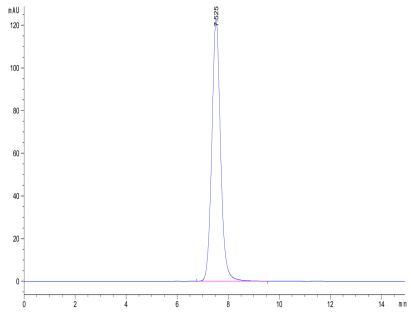

Fig2: The purity of Human HLA-A*02:01&B2M&WT-1 (RMFPNAPYL) Monomer was greater than 95% as determined by SEC-HPLC.

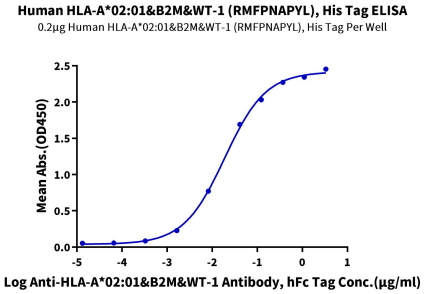

Fig3: Immobilized Human HLA-A*02:01&B2M&WT-1 (RMFPNAPYL) Monomer, His Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Anti-HLA-A*02:01&B2M&WT-1 (RMFPNAPYL) Antibody, hFc Tag with the EC50 of 19.0ng/ml determined by ELISA (QC Test).

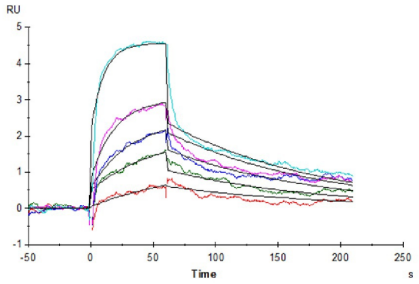

Fig4: Human HLA-A*02:01&B2M&WT-1 (RMFPNAPYL) Monomer, His Tag captured on CM5 Chip via Anti-His Antibody can bind Anti-HLA-A*02:01&B2M&WT-1 (RMFPNAPYL) Antibody, hFc Tag with an affinity constant of 0.33nM as determined in SPR assay (Biacore T200).

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".