

Human LY6G6D Protein



Cat. No. LYD-HM66D

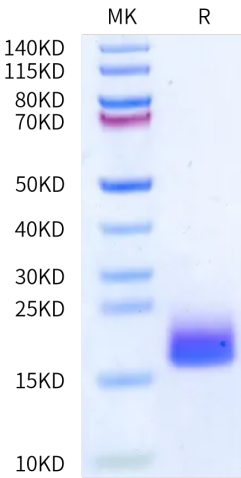
Description	
Source	Recombinant Human LY6G6D Protein is expressed from HEK293 with His tag and Spy tag at the C-terminus. It contains Asn20-Ser104.
Accession	O95868
Molecular Weight	The protein has a predicted MW of 12.6 kDa. Due to glycosylation, the protein migrates to 15-25 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage	
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background	
LY6G6D is a selectively expressed colorectal cancer antigen that can be used for targeting a therapeutic T-cell response by a T-cell engager. LY6G6D was identified as a selectively expressed CRC antigen that can be utilized to potentially re-direct and activate cytotoxic T-cells to lyse LY6G6D expressing CRC using a TcE. This effect can be spread to target negative neighboring tumor cells, potentially leading to improved therapeutic efficacy.	

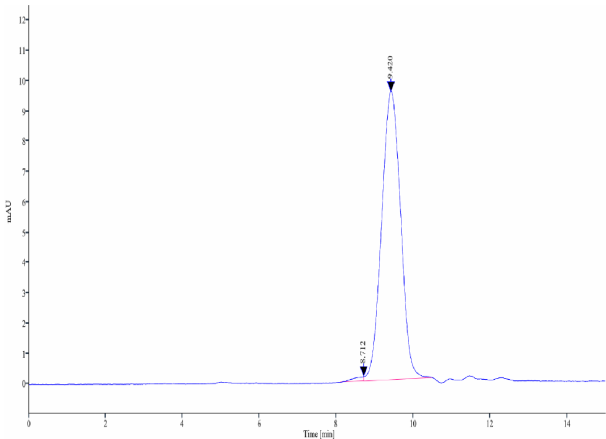
Assay Data

Bis-Tris PAGE



Human LY6G6D on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human LY6G6D is greater than 95% as determined by SEC-HPLC.

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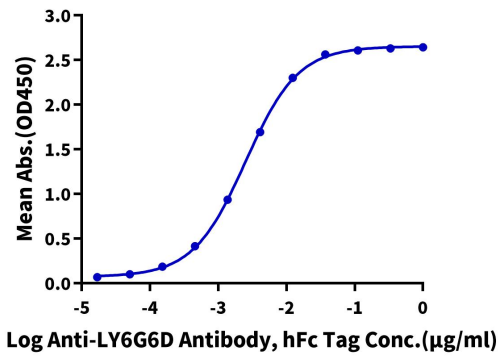


Assay Data

ELISA Data

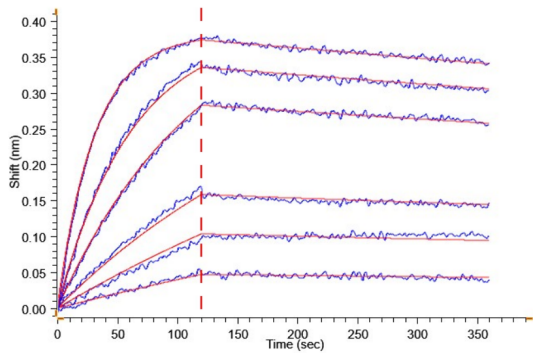
Human LY6G6D, His Tag ELISA

0.05µg Human LY6G6D, His Tag Per Well



Immobilized Human LY6G6D, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-LY6G6D Antibody, hFc Tag with the EC50 of 2.5ng/ml determined by ELISA.

BLI Data



Loaded Anti-LY6G6D Antibody, hFc Tag on ProA-Biosensor can bind Human LY6G6D, His-Spy Tag with an affinity constant of 4.91 nM as determined in BLI assay.