

# Human LY6G6D Protein

Cat. No. LYD-HM16D

## Description

<b>Source</b>	Recombinant Human LY6G6D Protein is expressed from HEK293 with His tag and Strep-II tag at the C-Terminus. It contains Asn20-Ser104.
<b>Accession</b>	O95868
<b>Molecular Weight</b>	The protein has a predicted MW of 12.33 kDa. Due to glycosylation, the protein migrates to 15-20 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE

## Formulation and Storage

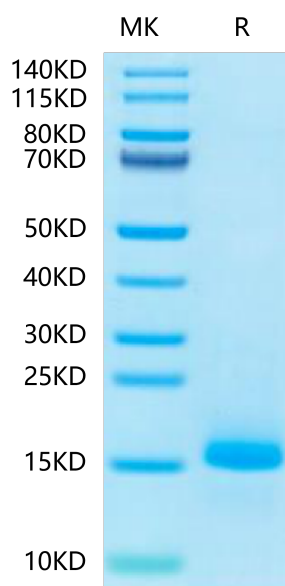
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-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 potently 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

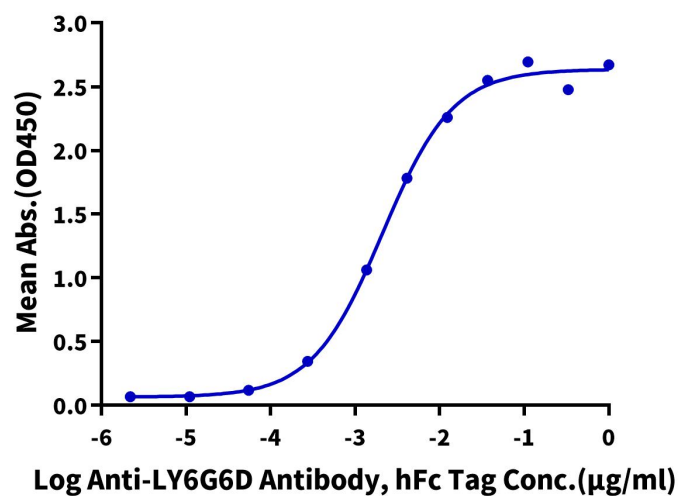
### Bis-Tris PAGE



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

### ELISA Data

## Assay Data

**Human LY6G6D, His Tag ELISA**0.02 $\mu$ g Human LY6G6D, His Tag Per Well

Immobilized Human LY6G6D, His Tag at 0.2 $\mu$ g/ml (100 $\mu$ l/well) on the plate. Dose response curve for Anti-LY6G6D Antibody, hFc Tag with the EC50 of 2.1ng/ml determined by ELISA.