

## LY6G6D recombinant protein

Recombinant Human LY6G6D Protein (His Tag)

CATALOG #  
**AAA259208**

HOST  
**HEK293 Cells**

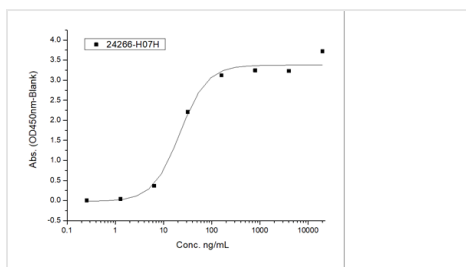
### PRODUCT SYNONYMS

LY6G6D; Recombinant Human LY6G6D Protein (His Tag); DADB-110M10.6 Protein; Human; G6D Protein; LY6-D Protein; MEGT1 Protein; NG25 Protein; LY6G6D recombinant protein

### PRODUCT SPECIFICATIONS

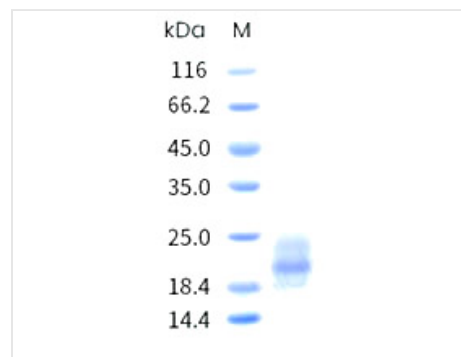
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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | HEK293 Cells                                                                                                                                                                                                                                                                |
| Purity/Purification     | >= 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                           |
| Form/Format             | Lyophilized from sterile PBS, pH 7.4.<br>Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                                                                                               |
| Species                 | Human                                                                                                                                                                                                                                                                       |
| Predicted N Terminal    | His                                                                                                                                                                                                                                                                         |
| Endotoxin               | <1.0 EU per ug protein as determined by the LAL method.                                                                                                                                                                                                                     |
| Protein Construction    | A DNA sequence encoding the Human LY6G6D (O95868)(Asn20-Asn103) was expressed, with a polyhistidine tag at the N-terminus.                                                                                                                                                  |
| Activity                | Immobilized Anti-ly6g6d human IgG1 at 2 ug/mL (100 uL/well) can bind Recombinant Human LY6G6D Protein (His Tag) , the EC50 is 10-30 ng/mL.                                                                                                                                  |
| Preparation and Storage | Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |

### IMAGES



#### Application Data

Immobilized Anti-ly6g6d human IgG1 at 2 ug/mL (100 uL/well) can bind Recombinant Human LY6G6D Protein (His Tag) (#AAA259208), the EC50 is 10-30 ng/mL.



#### Application Data

ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for LY6G6D recombinant protein | The Lymphocyte Antigen 6 Family Member G6D (LY6G6D) is a member of the LY6 family of proteins (typically 70-80 amino acids), mostly GPI-anchored to the cell surface. Regulated by the JAK-STAT5 and RAS-MEK-ERK cascades and belonging to a cluster of leukocyte antigens located in the MHC III region on chromosome 6, LY6G6D demonstrates selective expression in colorectal cancer (CRC), particularly the microsatellite stable subtype, with minimal to no expression in normal tissues. LY6G6D expression is also enhanced in diseases characterized by systemic immune suppression, such as autosomic dominant monocytopenia. LY6G6D up-regulation was predominant in CRCs characterized by an enrichment of immune suppressive regulatory T-cells and limited PD-1/PD-L1 immune checkpoint receptors, demonstrating its potential as a target for novel T-cell-dependent bispecific antibodies that can redirect T-cell effector function to colorectal tumors. |
| References                                                 | 1. Corrales L, et al. LY6G6D is a selectively expressed colorectal cancer antigen that can be used for targeting a therapeutic T-cell response by a T-cell engager. Front Immunol, 2022. doi: 10.3389/fimmu.2022.1008764. 2. Wang P, et al. Novel Anti-LY6G6D/CD3 T-Cell-Dependent Bispecific Antibody for the Treatment of Colorectal Cancer. Mol Cancer Ther, 2022. doi: 10.1158/1535-7163 3. Giordano G, et al. JAK/Stat5-mediated subtype-specific lymphocyte antigen 6 complex, locus G6D (LY6G6D) expression drives mismatch repair proficient colorectal cancer. J Exp Clin Cancer Res, 2019. doi: 10.1186/s13046-018-1019-5                                                                                                                                                                                                                                                                                                                                       |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                           |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 51243049                                                                                                                                  |
| NCBI GeneID                      | 58530                                                                                                                                     |
| NCBI Accession #                 | NP_067069.2                                                                                                                               |
| NCBI GenBank Nucleotide #        | NM_021246.2                                                                                                                               |
| UniProt Accession #              | O95868; Q4VX50; A2BEY8; B0UXC1; B0V019; B0V1Y6                                                                                            |
| Molecular Weight                 | 13,691 Da                                                                                                                                 |
| NCBI Official Full Name          | lymphocyte antigen 6 complex locus protein G6d                                                                                            |
| NCBI Official Synonym Full Names | lymphocyte antigen 6 complex, locus G6D                                                                                                   |
| NCBI Official Symbol             | LY6G6D                                                                                                                                    |
| NCBI Official Synonym Symbols    | G6D; NG25; LY6-D; MEGT1; C6orf23                                                                                                          |
| NCBI Protein Information         | lymphocyte antigen 6 complex locus protein G6d; protein Ly6-D; lymphocyte antigen-6 G6D; megakaryocyte-enhanced gene transcript 1 protein |
| UniProt Protein Name             | Lymphocyte antigen 6 complex locus protein G6d                                                                                            |
| UniProt Gene Name                | LY6G6D                                                                                                                                    |
| UniProt Synonym Gene Names       | C6orf23; G6D; MEGT1; NG25; Protein Ly6-D                                                                                                  |
| UniProt Entry Name               | LY66D_HUMAN                                                                                                                               |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.