

**Synonym**

LAG3,CD223,FDC

**Source**

Human LAG-3 / CD223 Protein, His Tag(LA3-H52H3) is expressed from human 293 cells (HEK293). It contains AA Leu 23 - Leu 450 (Accession # [P18627-1](#)).

Predicted N-terminus: Leu 23

**Molecular Characterization**

LAG-3(Leu 23 - Leu 450)	Poly-his
P18627-1	

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 48.1 kDa. The protein migrates as 58-65 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.**Purity**

&gt;90% as determined by SDS-PAGE.

&gt;95% as determined by SEC-MALS.

**Formulation**Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

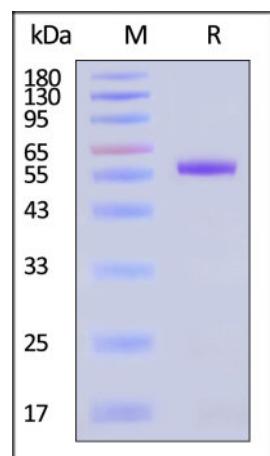
**Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

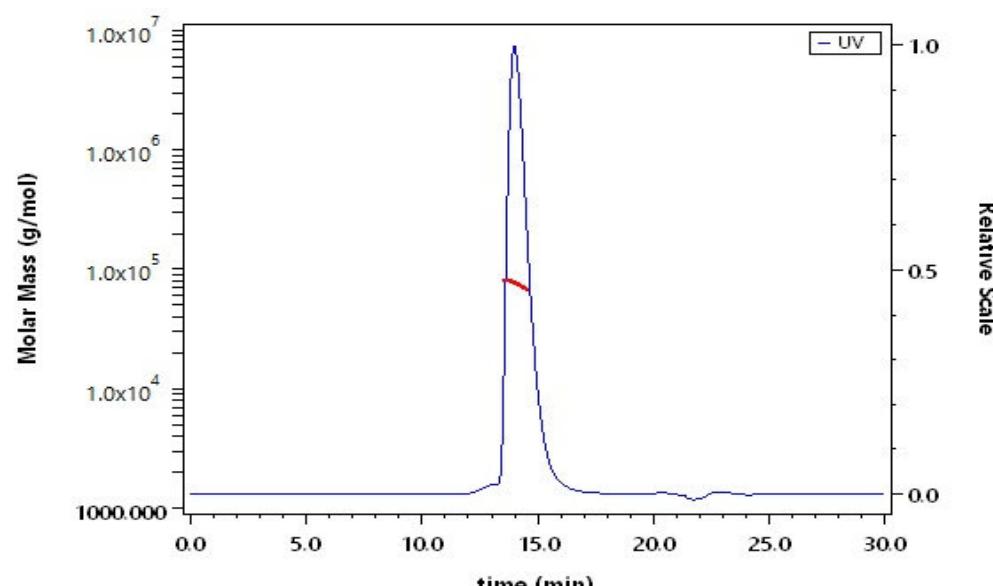
*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**

Human LAG-3 / CD223 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

**SEC-MALS**

The purity of Human LAG-3 / CD223 Protein, His Tag (Cat. No. LA3-H52H3) is more than 95% and the molecular weight of this protein is around 60-85 kDa verified by SEC-MALS.

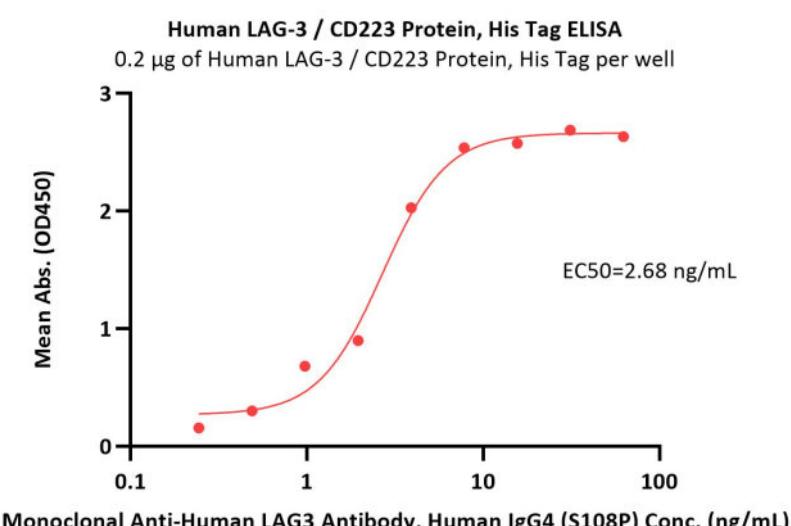
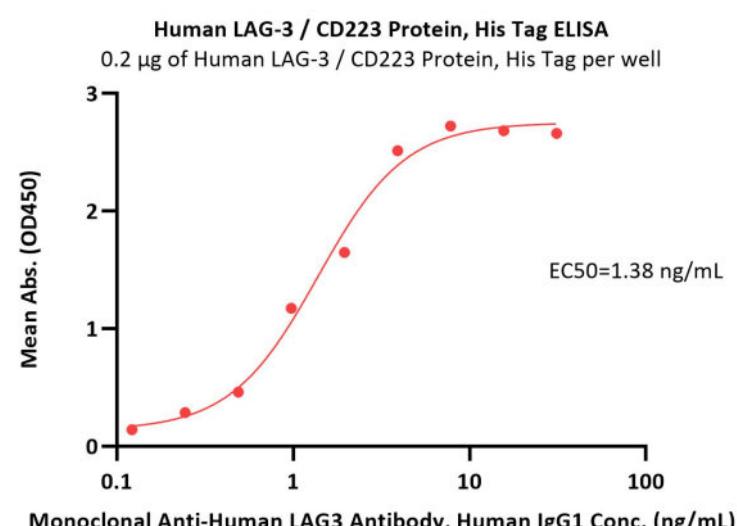
[Report](#)

**Bioactivity-ELISA**

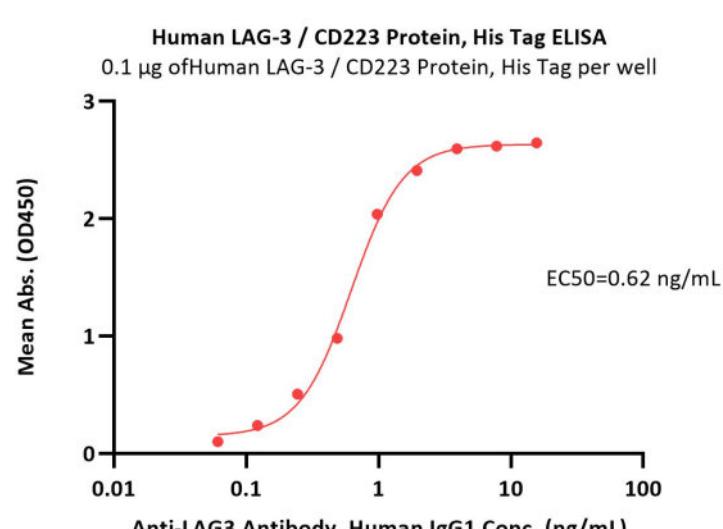
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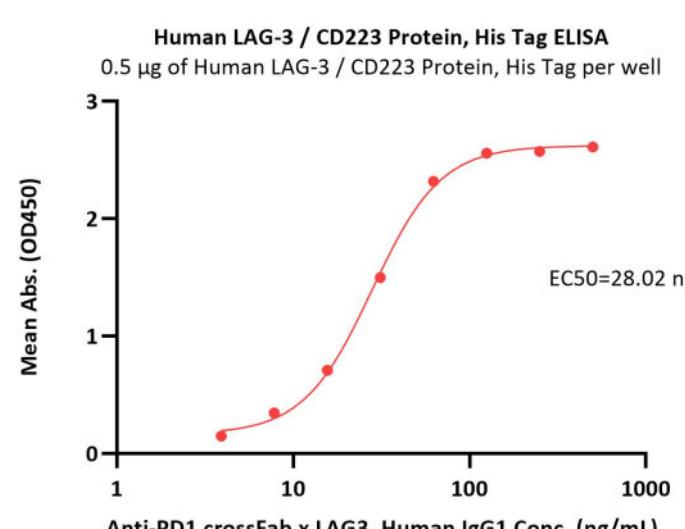


Immobilized Human LAG-3 / CD223 Protein, His Tag (Cat. No. LA3-H52H3) at 2 µg/mL (100 µL/well) can bind Monoclonal Anti-Human LAG3 Antibody, Human IgG1 with a linear range of 0.1-4 ng/mL (QC tested).



Immobilized Human LAG-3 / CD223 Protein, His Tag (Cat. No. LA3-H52H3) at 1 µg/mL (100 µL/well) can bind Anti-LAG3 Antibody, Human IgG1 with a linear range of 0.06-2 ng/mL (Routinely tested).

Immobilized Human LAG-3 / CD223 Protein, His Tag (Cat. No. LA3-H52H3) at 2 µg/mL (100 µL/well) can bind Monoclonal Anti-Human LAG3 Antibody, Human IgG4 (S108P) with a linear range of 0.2-4 ng/mL (Routinely tested).



Immobilized Human LAG-3 / CD223 Protein, His Tag (Cat. No. LA3-H52H3) at 5 µg/mL, add Anti-PD1 crossFab x LAG3, Human IgG1 and then add Biotinylated Human PD-1, Fc, Avitag (Cat. No. PD1-H82F1) at 0.2 µg/mL. Detection was performed using HRP-conjugated Streptavidin (Acro, Cat. No. STN-NH913) (Routinely tested).

## Background

Lymphocyte activation gene 3 protein (LAG3) is also known as CD antigen CD223 and protein FDC, which belongs to immunoglobulin (Ig) superfamily and contains 4 extracellular Ig-like domains. The LAG3 gene contains 8 exons. The sequence data, exon/intron organization, and chromosomal localization all indicate a close relationship of LAG3 to CD4. LAG3 /CD223 involved in lymphocyte activation. LAG3 /CD223 binds to HLA class-II antigens.

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