

# Biotinylated Cynomolgus LAG-3 / CD223 Protein, Mouse IgG2a Fc Tag, ultra sensitivity (primary amine labeling) (MALS verified)

Catalog # LA3-C8258



BIOSYSTEMS  
**Acro**

## Synonym

LAG3,CD223,FDC

## Source

Biotinylated Cynomolgus LAG-3, Mouse IgG2a Fc Tag, primary amine labeling(LA3-C8258) is expressed from human 293 cells (HEK293). It contains AA Ala 18 - His 449 (Accession # [XP\\_005570011.1](#)).

Predicted N-terminus: Ala 18

## Molecular Characterization

LAG-3(Ala 18 - His 449) XP_005570011.1	mFc(Glu 98 - Lys 330) P01863
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This protein carries a mouse IgG2a Fc tag at the C-terminus.

The protein has a calculated MW of 73.5 kDa. The protein migrates as 80-90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Labeling

*The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with biotins using standard chemical labeling method. A specially optimized long-spacer biotin reagent (32.5 angstroms) is used in this product to minimize potential steric hindrance.*

## Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

## Formulation

Lyophilized from 0.22 µm 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

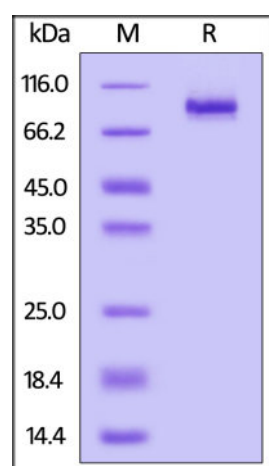
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

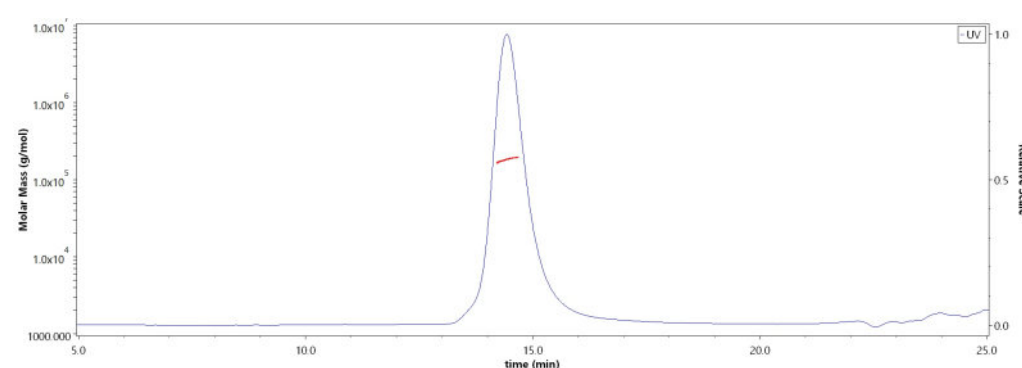
## SDS-PAGE



Biotinylated Cynomolgus LAG-3, Mouse IgG2a Fc Tag, primary amine labeling on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-ELISA

## SEC-MALS



The purity of Biotinylated Cynomolgus LAG-3, Mouse IgG2a Fc Tag, primary amine labeling (Cat. No. LA3-C8258) is more than 90% and the molecular weight of this protein is around 165-200 kDa verified by SEC-MALS.

[Report](#)

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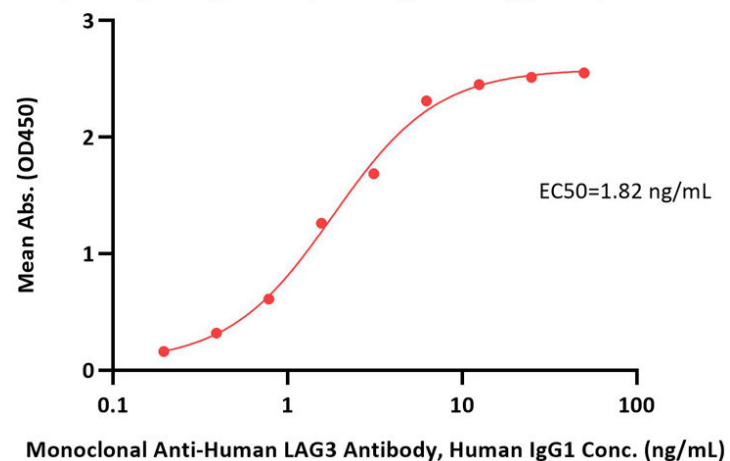


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9/19/2024



**Biotinylated Cynomolgus LAG-3, Mouse IgG2a Fc Tag, primary amine labeling ELISA**  
0.1 µg of Biotinylated Cynomolgus LAG-3, Mouse IgG2a Fc Tag, primary amine labeling per well



Immobilized Biotinylated Cynomolgus LAG-3, Mouse IgG2a Fc Tag, primary amine labeling (Cat. No. LA3-C8258) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Monoclonal Anti-Human LAG3 Antibody, Human IgG1 with a linear range of 0.2-6 ng/mL (QC 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.

## Clinical and Translational Updates

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