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

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.

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

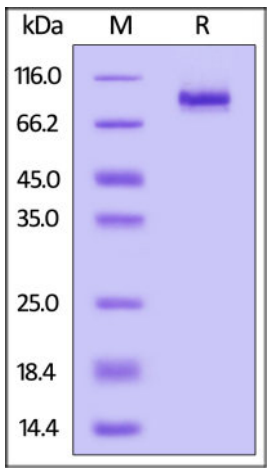
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

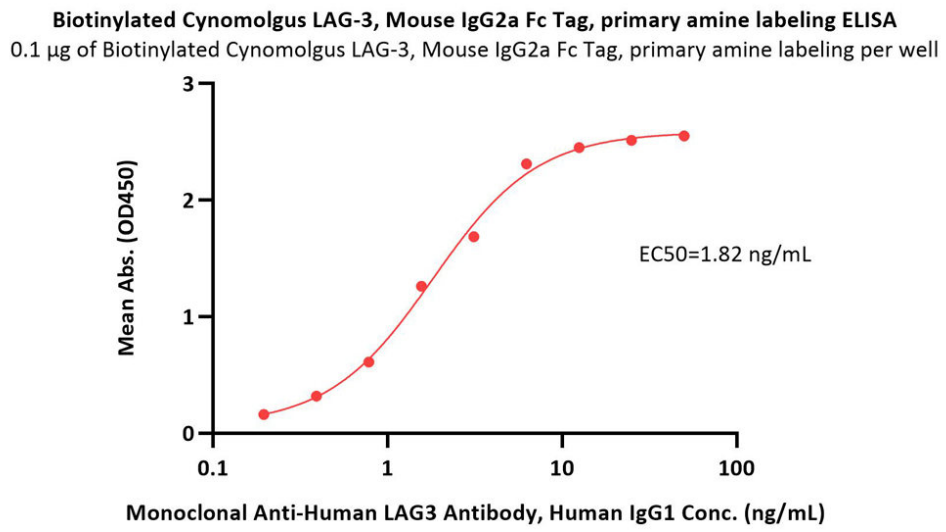
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



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

Bioactivity-ELISA



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

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.