



Synonym

LAG3,CD223,FDC

Source

Human LAG-3, Mouse IgG2a Fc Tag(LA3-H52Aa) 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) P18627-1	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 73.3 kDa. The protein migrates as 90-100 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5 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

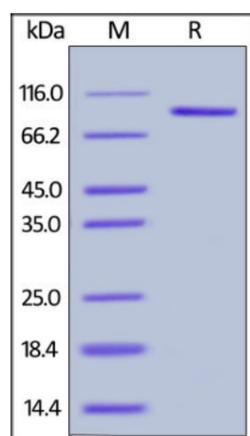
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

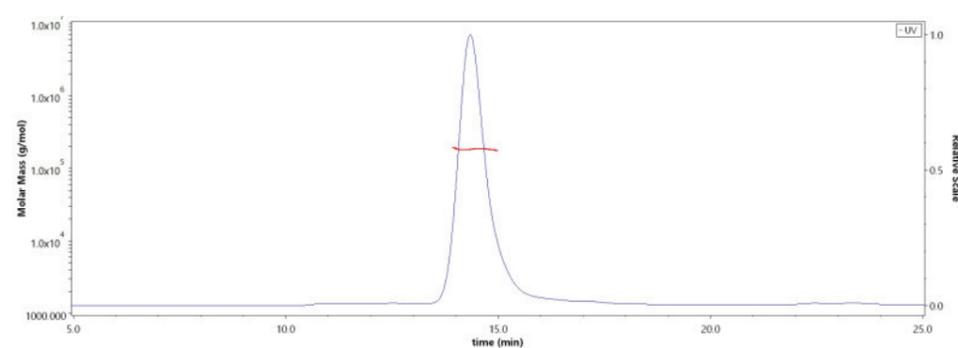
SDS-PAGE



Human LAG-3, Mouse IgG2a Fc Tag 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

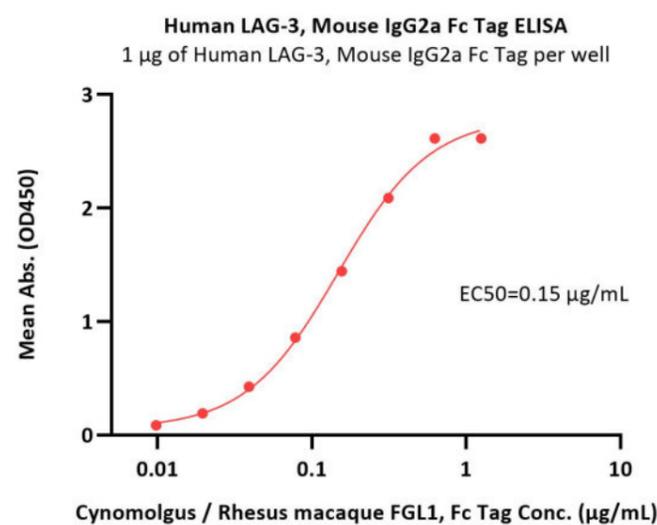
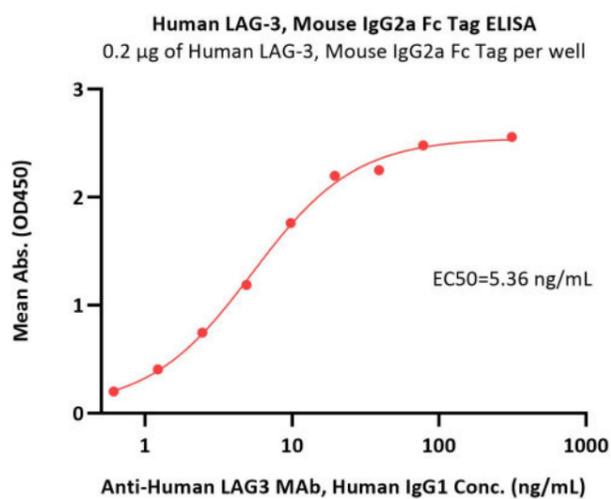


The purity of Human LAG-3, Mouse IgG2a Fc Tag (Cat. No. LA3-H52Aa) is more than 95% and the molecular weight of this protein is around 160-185 kDa verified by SEC-MALS.

[Report](#)

Discounts, Gifts,
and more!

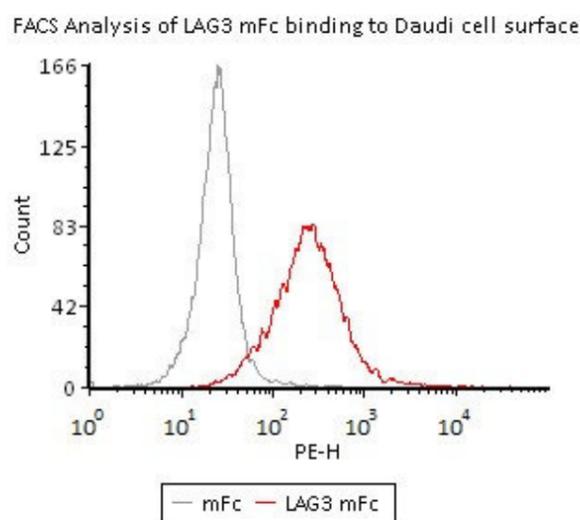




Immobilized Human LAG-3, Mouse IgG2a Fc Tag (Cat. No. LA3-H52Aa) at 2 µg/mL (100 µL/well) can bind Anti-Human LAG3 MAb, Human IgG1 with a linear range of 1-10 ng/mL (QC tested).

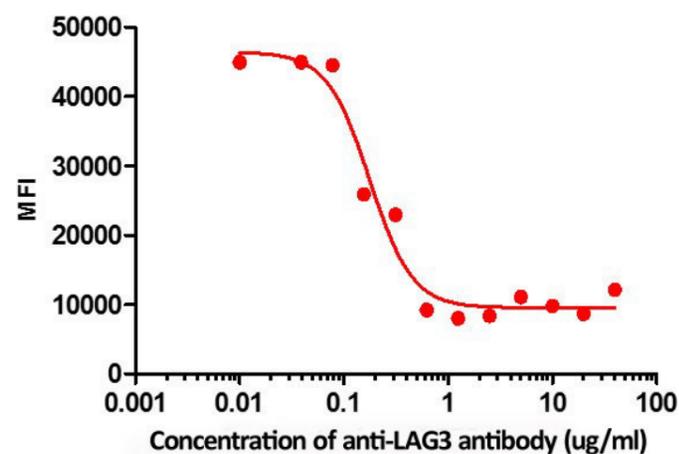
Immobilized Human LAG-3, Mouse IgG2a Fc Tag (Cat. No. LA3-H52Aa) at 10 µg/mL (100 µL/well) can bind Cynomolgus / Rhesus macaque FGL1, Fc Tag (Cat. No. FG1-C5269) with a linear range of 0.01-0.156 µg/mL (Routinely tested).

Bioactivity-FACS



Flow Cytometry assay shows that Human LAG3, Mouse IgG2a Fc Tag (Cat. No. LA3-H52Aa) can bind to daudi cell surface. The concentration of LAG3 used is 0.3 µg/mL (Routinely tested).

Competitive experiment of neutralizing anti-LAG3 antibody



FACS analysis shows that the binding Human LAG3, Mouse IgG2a Fc Tag (Cat. No. LA3-H52Aa) to daudi cells was inhibited by increasing concentration of neutralizing Anti-LAG3 antibody. The concentration of LAG3 used is 1 µg/mL. The IC50 is 0.165 µg/mL (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.

Clinical and Translational Updates

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

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