

Anti-Lag3 hlgG4 Antibody(Relatlimab)

Product Information

GM-51650AB-10	10 µg
GM-51650AB-100	100 µg
GM-51650AB-1000	1 mg

Antibody Information

Species Reactivity	Human
Specificity	Detects human LAG3.
Source/Isotype	Monoclonal human IgG4, κ
Other Names	CD223
Gene ID	3902(human)
Application	Binding activation: 1.5 ng/mL-100 µg/mL
Background	Lymphocyte-activation gene 3, also known as LAG-3, which was discovered in 1990 and was designated CD223 (cluster of differentiation 223) after the Seventh Human Leucocyte Differentiation Antigen Workshop in 2000, is a cell surface molecule with diverse biologic effects on T cell function. The LAG3 gene contains 8 exons. The sequence data, exon/intron organization, and chromosomal localization all indicate a close relationship of LAG3 to CD4. The gene for LAG-3 lies adjacent to the gene for CD4 on human chromosome 12 (12p13) and is approximately 20% identical to the CD4 gene. The LAG3 protein, which belongs to immunoglobulin (Ig) superfamily, comprises a 503-amino acid type I transmembrane protein with four extracellular Ig-like domains, designated D1 to D4. LAG-3 is expressed on activated T cells, natural killer cells, B cells and plasmacytoid dendritic cells. LAG3's main ligand is MHC class II, to which it binds with higher affinity than CD4. The protein negatively regulates cellular proliferation, activation, and homeostasis of T cells, in a similar fashion to CTLA-4 and PD-1 and has been reported to play a role in Treg suppressive function.
Storage	Store at +4°C short term (1-2 weeks). Store at -20°C long term
Formulation	Phosphate-buffered solution, pH 7.2.

Data Examples

Binding activation

H_LAG3 Reporter Jurkat Cell Line (Catalog # GM-C20096) were induced with inductor for 48 h. Serial dilutions of Anti-Lag3 hlgG4 Antibody (1:4 serial dilutions, from 100 $\mu\text{g}/\text{mL}$ to 1.5 ng/mL) (Catalog # GM-51650AB) were added into H_LAG3 Reporter Jurkat Cell Line. SEE (100 pg/mL , 5% BSA+1% FBS) were added into Raji Cell Line (Catalog # GM-C19100). Then H_LAG3 Reporter Jurkat Cell Line were binded with Raji Cell Line. EC_{50} for this effect was 2.079 $\mu\text{g}/\text{mL}$.

