

Cynomolgus LAG3 / CD223 / Lymphocyte activation gene 3 (74 Pro, His Tag)

Catalog Number: 90841-C08H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

LAG3

Protein Construction:

A DNA sequence encoding the cynomolgus LAG3 (XP_005570011.1) (Met1-Leu450, 74 Pro) was expressed with a polyhistidine tag at the C-terminus.

Source: Cynomolgus

Expression Host: HEK293 Cells

QC Testing

Purity: ≥ 95 % as determined by SDS-PAGE. ≥ 95 % as determined by SEC-HPLC.

Bio Activity:

1. Immobilized LAG3 Protein, Cynomolgus, Recombinant (74 Pro, His Tag)(Cat:90841-C08H) at 2 µg/mL (100 µL/well) can bind FGL1 Protein, Cynomolgus, Recombinant (hFc Tag)(Cat:90926-C02H), the EC50 is 140-760 ng/mL.

2. Immobilized Recombinant Cynomolgus LAG3/CD223(74 Pro, His Tag) Cat: 90841-C08H) at 2 µg/mL (100 µL/well) can bind Anti-LAG3(BMS)-IgG4 Antibody, the EC50 is 60-180 ng/mL.

Endotoxin:

< 1.0 EU per µg protein as determined by the LAL method.

Predicted N terminal: Val 20

Molecular Mass:

The recombinant LAG3 consists of 437 amino acids and predicts a molecular mass of 47.4 kDa. As a result of glycosylation, it migrates as an approximately 57.73 and 132.72 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Stability & Storage:

Samples are stable for twelve months from date of receipt at -20°C to -80°C.

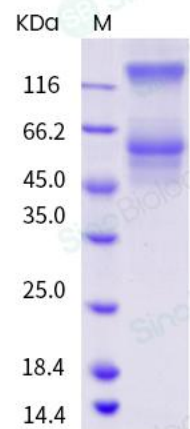
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

LAG3 (Lymphocyte Activating 3) is a Protein Coding gene. 2 alternatively spliced human isoforms have been reported. LAG3, also known as CD223 and Lymphocyte activation gene 3, belongs to the immunoglobulin (Ig) superfamily. The LAG3 gene contains 8 exons. It is selectively expressed in activated T and NK cells. LAG3 contains 4 extracellular Ig-like domains and has a negative regulatory function in T cells. It also acts as a new marker of T cell-induced B cell activation. As a soluble molecule, LAG3 activates antigen-presenting cells through MHC class II signaling, leading to increased antigen-specific T-cell responses in vivo. Diseases associated with LAG3 include Smoldering Myeloma and Kyphoscoliotic Heart Disease.

References

1. Sigrid Hannier. et al., 1998, The Journal of Immunology. 161(8): 4058-65. 2. Triebel F. et al., 1990, J Exp Med. 171 (5): 1393-405. 3. Baixeras E. et al., 1992, J Exp Med. 176 (2): 327-37.