



Recombinant Protein Technical Manual

Recombinant Human LAG3/CD223 Protein (His Tag)(Active)
RPES1159

Product Data:

Product SKU: RPES1159

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: NP_002277.4

Protein Information:

Molecular Mass: 45.5 kDa

AP Molecular Mass: 60-80 kDa

Tag: C-6His

Bio-activity: Immobilized Human FGL1-mFc(Cat: PKSH033679) at 5µg/ml(100 µl/well) can bind Human LAG-3-His. The ED50 of Human LAG-3-His is 2172.8 ng/mL.

Purity: > 95 % as determined by reducing SDS-PAGE.

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

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application: Functional ELISA

Synonyms: Lymphocyte activation gene 3 protein;LAG3;LAG-3;Protein FDC;CD223;LAG-3

Immunogen Information:

Sequence: Leu23-Gly434

Background:

Human Lymphocyte activation gene 3 protein (LAG3) is a member of immunoglobulin (Ig) superfamily. LAG3 contains 4 extracellular Ig-like domains. The LAG3 gene contains 8 exons. LAG3 is involved in lymphocyte activation and can bind to HLA class-II antigens. It is selectively expressed in activated T and NK cells. LAG3 has a negative regulatory function in T cells and 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. It can lead to increased antigen-specific T-cell responses in vivo. LAG-3 has higher affinity to MHC class II than CD4.