



Recombinant Protein Technical Manual

Recombinant Mouse LAG3 Protein (His Tag)(Active)

RPES2171

Product Data:

Product SKU: RPES2171

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: Q61790

Protein Information:

Molecular Mass: 46.2 kDa

AP Molecular Mass: 55-80 kDa

Tag: C-6His

Bio-activity: Immobilized Mouse LAG-3-His at 10µg/ml(100 µl/well) can bind Biotinylated Human FGL1-Avi. The ED50 of Mouse LAG-3-His is 9.4 ug/ml.

Purity: > 95 % as determined by 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 PBS, pH7.4.

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

Application: Functional ELISA

Synonyms: Lymphocyte activation gene 3 protein;CD223;Lag3

Immunogen Information:

Sequence: Ser23-Leu442

Background:

Lymphocyte-activation gene 3 (LAG3), also known as CD223, is a type I transmembrane protein with four extracellular Ig-like domains, designated D1 to D4 and belongs to the immunoglobulin superfamily. The gene for LAG3 lies adjacent to the gene for CD4 on human chromosome 12p13.32 and shares approximately 20% identical to the CD4 gene. LAG3 is expressed on activated T cells, natural killer cells, B cells and plasmacytoid dendritic cells. LAG3 binds with high affinity to MHC class II molecules, and it interferes competitively with the binding of CD4 to MHC class II and thereby blocks the transduction of stimulatory signals mediated by this interaction. LAG3 negatively regulates cellular proliferation, activation, and homeostasis of T cells, and plays an important role in Treg suppressive function. LAG3 is the target of various drug development programs to develop new treatments for cancer and autoimmune disorders. The soluble form, sLAG-3, is being developed as a cancer drug.