

Human CellExp™ IL-2 R alpha / CD25, Mouse Recombinant

CATALOG NO: P1464-10 10 µg
P1464-50 50 µg

ALTERNATE NAMES: IL2RA, CD25, p55, IL2-RA, IL-2-RA

MOL. WT. This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 26.6 kDa. The protein migrates as 40-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

SOURCE: HEK 293 cells

PURITY: >90% SDS-PAGE

ENDOTOXIN: Less than 1.0 EU per µg by the LAL method.

FORM: Lyophilized

FORMULATION: Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

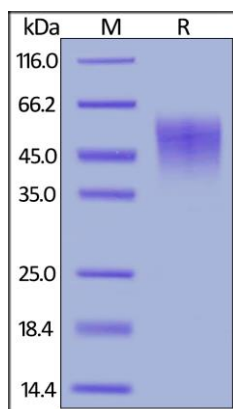
RECONSTITUTION: Reconstitute in sterile deionized water to the desired protein concentration.

SPECIFIC ACTIVITY: Immobilized Biotinylated Human IL-2, Fc Tag, A at 5 µg/mL (100 µL/well) on streptavidin precoated (0.5 µg/well) plate, can bind Mouse IL-2 R alpha with a linear range of 5-40 ng/mL.
Immobilized Mouse IL-2 R alpha at 5 µg/mL (100 µL/well) can bind Biotinylated Human IL-2 with a linear range of 0.6-10 ng/mL

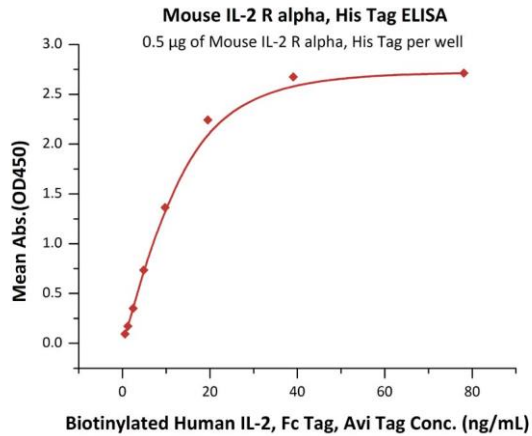
STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -80°C and use within 3 months. Avoid repeated freezing and thawing cycles. -20°C

DESCRIPTION: Interleukin-2 receptor subunit alpha (IL2RA) is also known as IL-2R subunit alpha, IL-2-RA, IL2-RA, TAC antigen, p55, CD antigen CD25, is a type I transmembrane glycoprotein. IL2RA is expressed on activated T cells and regulatory T cells, and is capable of binding IL2 with low affinity by itself. However, a ligand-induced high affinity heterotrimeric receptor complex is produced when IL2RA is associated non-covalently with the IL2 receptor beta and gamma chain, and subsequently initiates the intracellular signal pathways such as MAPK or JAK/STAT. On dendritic cells (DC), CD25 has been previously regarded as an activation marker, while both murine and human DC can express CD25; they do not express the beta-chain of the IL-2 receptor, which is indispensable for the execution of IL-2 signaling.

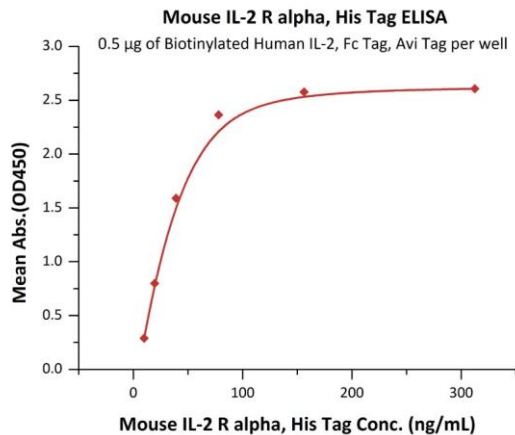
AMINO ACID SEQUENCE: Glu 22 - Lys 236



Mouse IL-2 R alpha, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.



Immobilized Mouse IL-2 R alpha at 5 µg/mL (100 µL/well) can bind Biotinylated Human IL-2 with a linear range of 0.6-10 ng/mL



Immobilized Biotinylated Human IL-2, Fc Tag, A at 5 µg/mL (100 µL/well) on streptavidin precoated (0.5 µg/well) plate, can bind Mouse IL-2 R alpha with a linear range of 5-40 ng/mL

RELATED PRODUCTS:

- Anti-IL-2R alpha (CD25) (Basiliximab), Human IgG1 Antibody (A1098)
- IL-2 Receptor α, Human Recombinant (7100)
- Human CellExp™ CD25/IL-2R alpha, C-His Tag, Human Recombinant (P1303)
- Human CellExp™ IL-2 R beta /CD122, human recombinant (7391)

FOR RESEARCH USE ONLY! Not to be used on humans.