HUMAN IL21R PROTEIN, HFC TAG

Cat.#: 11257
Product Name: Human IL21R Protein
Size : 10 µg, 50 µg and 100 µg
Synonyms: CD360;IMD56;NILR
Target: IL21R
UNIPROT ID: Q9HBE5
Description: Recombinant human IL21R protein with C-terminal human Fc tag
Background: The protein encoded by this gene is a cytokine receptor for interleukin 21 (IL21). It belongs to the type I cytokine receptors, and has been shown to form a heterodimeric receptor complex with the common gamma-chain, a receptor subunit also shared by the receptors for interleukin 2, 4, 7, 9, and 15. This receptor transduces the growth promoting signal of IL21, and is important for the proliferation and differentiation of T cells, B cells, and natural killer (NK) cells. The ligand binding of this receptor leads to the activation of multiple downstream signaling molecules, including JAK1, JAK3, STAT1, and STAT3. Knockout studies of a similar gene in mouse suggest a role for this gene in regulating immunoglobulin production. Three alternatively spliced transcript variants have been described.
Species/Host: HEK293
Molecular Weight: The protein has a predicted molecular mass of 50.7 kDa after removal of the signal peptide.The apparent molecular mass of IL21R-hFc is approximately 55-100 kDa due to glycosylation.
Molecular Characterization: IL21R(Cys20-Glu232) hFc(Glu99-Ala330)
Purity: The purity of the protein is greater than 90% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.
Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

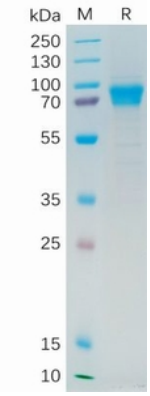

Figure 1. Human IL21R Protein, hFc Tag on SDS-PAGE under reducing condition.

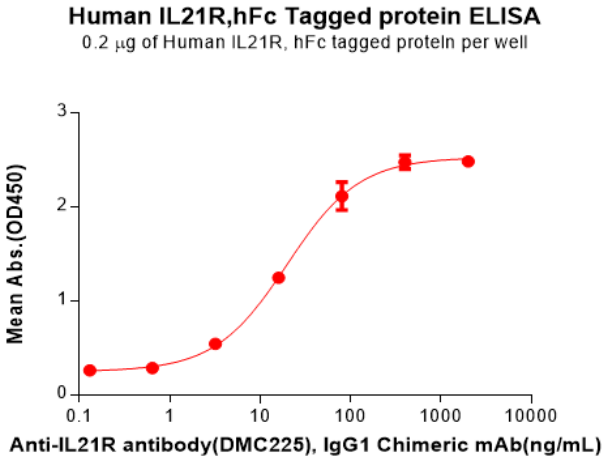

Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human IL21R Protein, hFc Tag(11257) can bind Anti-IL21R antibody(DMC225), IgG1 Chimeric mAb in a linear range of 3.20-80 ng/mL.

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