

Human IL-11 Rα Antibody

Monoclonal Mouse IgG₁ Clone # 473143 Catalog Number: MAB1977

nd Western blots. In direct ELISAs, no cross-reactivity with rmIL-11 Rα or recombinant human IL oss-reactivity with recombinant mouse (rm) IL-11 Rα is observed. ure supernatant
ure supernatant
ıre supernatant
nbinant human IL-11 Rα
n PBS with Trehalose. See Certificate of Analysis for details. philized or as a 0.2 μm filtered solution in PBS.

1 μg/mL Recombinant Human IL-11 Rα Fc Chimera (Catalog # 1977-MR)	
STORAGE	
Reconstitute at 0.5 mg/mL in sterile PBS.	
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution.	
5	Reconstitute at 0.5 mg/mL in sterile PBS. The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C Use a manual defrost freezer and avoid repeated freeze-thaw cycles. • 12 months from date of receipt, -20 to -70 °C as supplied.

Western Blot

Human interleukin 11 receptor alpha (IL-11 Rα) is 150 kDa type I transmembrane protein in the hematopoietin cytokine receptor family that was cloned on the basis of its conserved WSXWS motif. IL-11 Ra cDNA encodes a 422 amino acid (aa) residue precursor type I membrane protein, containg a signal peptide followed by extracellular (ECD), transmembrane and cytoplasmic domains. The extracellular region which is closely related to that of IL-6 Rα and CNTF Rα contains an immunoglobulin-like domain and two fibronectin-type III-like domains. Within the ECD, human IL-11 Rα shares 85% and 83% aa sequence identity with mouse and rat IL-11 Rα, respectively (1-3). Alternate splicing generates an isoform of human IL-11 Rα which lacks the cytoplasmic domain. By itself, IL-11 Rα binds IL-11 with low affinity. IL-11 Rα, together with gp130, forms a functional high-affinity receptor complex for IL-11. The expression of IL-11 Rα has been detected in all adult tissues examined (lung, stomach, intestine), during embryonic development and in totipotent and differentiating embryonic stem cells. Recombinant soluble IL-11 Rα has been shown to mediate IL-11 responsiveness in cells expressing the gp130 molecule. In cells expressing transmembrane IL-11 Rα and gp130, soluble IL-11 Rα has been shown to act as an IL-11 antagonist (3-6).

References:

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