Active Recombinant Mouse Il6ra Homodimer Protein, His tagged

Cat. No. Il6ra-47M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	IL-6Rα protein dimer contains the IL-6Rα extracellular domain (UniProt# P22272) fused with a proprietary cis-dimer motif followed by a His tag at the C-terminus was expressed in HEK293T.
Species	Mouse
Source	HEK293T
ProteinLength	20-364 aa
Description	Interleukin 6 receptor alpha (IL-6Rα) is a Type I transmembrane protein and Type I cytokine receptor and plays a crucial role in immune response, inflammation, and hematopoiesis. IL-6Rα is also known as Cluster of Differentiation 126 (CD126), IL6R, CD126, IL-6R-1, IL-6RA, IL6Q, IL6RA, IL6RQ, and gp80. IL-6Rα contains an extracellular domain with an Ig-like domain, cytokine binding module (CBM) domains, and a long flexible stalk region followed by a transmembrane domain and intracellular domains. IL-6Rα binding to its ligand interleukin 6 (IL-6) results in homodimerization and subsequent association with IL-6Rβ (gp130) dimer resulting in higher order complexes. IL-6Rα is involved in multiple disease processes due to its central role in IL-6 signaling. Dysregulation of IL-6Rα is implicated in many cancers and autoimmune diseases. While structurally and functionally similar to mouse IL-6Rα, mouse IL-6Rα is a species-specific tool essential for preclinical studies, basic research and translational research in cancer immunotherapy.

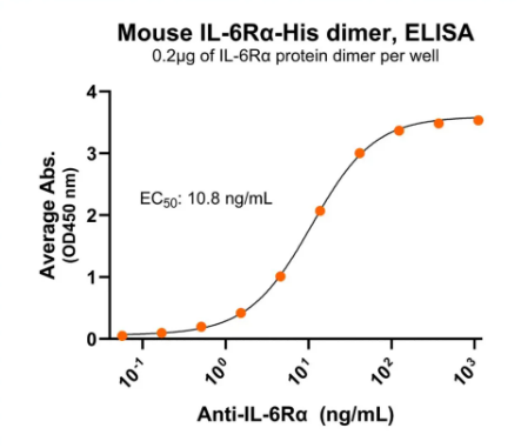
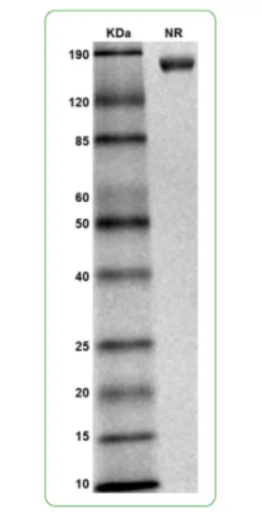
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Molecular Mass	92 kDa
Purity	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
Application	Verified Applications: ELISA for IL-6Rα-specific antibody binding assays. Suggested Applications: SPR & BLI for IL-6Rα-specific antibody binding assays. Animal immunization, RUO.
Storage	Store at -80 centigrade.
Storage Buffer	0.22μm filtered PBS, pH 7.4
Shipping	Frozen Dry Ice

GENE INFORMATION

Gene Name	Il6ra interleukin 6 receptor, alpha [Mus musculus (house mouse)]
Official Symbol	Il6ra
Synonyms	IL6RA; interleukin 6 receptor, alpha; interleukin-6 receptor subunit alpha; IL-6RA; IL-6R 1; IL-6R-alpha; IL-6R subunit alpha; IL-6 receptor alpha chain; IL-6 receptor subunit alpha; Il6r; CD126; IL-6R; MGC30256;
Gene ID	16194
mRNA Refseq	NM_010559
Protein Refseq	NP_034689

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UniProt ID	P22272
Bioactivity-Antibody Binding	 Immobilized mouse IL-6Rα protein dimer, His-tag at 2 μg/mL (100 μL/well) can bind anti-mouse IL-6Rα polyclonal antibody with half maximal effective concentration (EC50) range of 5.4-21.5 ng/mL (QC tested).
SDS-PAGE and WB	

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MW: Molecular Weight marker reduced condition NR: IL-6Rα dimer under non-reduced condition

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