

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF490

DESCRIPTION

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Species Reactivity	Mouse	
Specificity	Detects mouse IL-11 Rα in direct ELISAs and Western blots.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse IL-11 Rα Ser22-Gln367 Accession # Q64385	
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.	
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.	

APPLICATIONS

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Mouse IL-11 Rα Fc Chimera (Catalog # 490-IR)
Neutralization	,	ity to neutralize IL-11-induced proliferation in the T11 mouse plasmacytoma cell line. Nordan, . Immunol. 139 :813. The Neutralization Dose (ND ₅₀) is typically 1-6 μg/mL in the presence inant Mouse IL-11.



Stability & Storage	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.

• 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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Mouse IL-11 Ra Antibody

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BACKGROUND

Mouse interleukin 11 receptor alpha (IL-11 R α), originally designated NR1, is a member of the hematopoietic cytokine receptor family that was cloned on the basis of its conserved WSXWS motif. IL-11 R α cDNA encodes a 432 amino acid (aa) residue precursor type I membrane protein with a 23 aa residue signal peptide, a 344 aa residue extracellular domain containing two potential glycosylation sites, a 26 aa residue transmembrane region and a short (39 aa residue) cytoplasmic domain. In comparison with other hematopoietic cytokine receptors, the extracellular domain of IL-11 R α is closely related to that of IL-6 R α , CNTF R α and the p40 subunit of IL-12, exhibiting 24%, 22% and 16% amino acid sequence identity, respectively. By itself, IL-11 R α is losely related to that of IL-11 R α , together with gp130, forms a functional high-affinity receptor complex for IL-11. The expression of IL-11 R α 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 R α has been shown to mediate IL-11 antagonist.

References:

- 1. Taga, T. and T. Kishimoto (1997) Annu. Rev. Immuno. 15:797.
- 2. Hilton, D. et al. (1994) EMBO J. 13:4765.
- 3. Davidson, A.J. et al. (1997) Stem Cells 15:119.
- 4. Curtis, D.J. et al. (1997) Blood 90:4403.

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