

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse IL-11 R α 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 R α Ser22-Gln367 Accession # Q64385
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Neutralization	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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 binds IL-11 with low affinity. 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 responsiveness in cells expressing the gp130 molecule. In cells expressing transmembrane IL-11 R α and gp130, soluble IL-11 R α has been shown to act as an IL-11 antagonist.

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