

Human IL-2 Rα Antibody

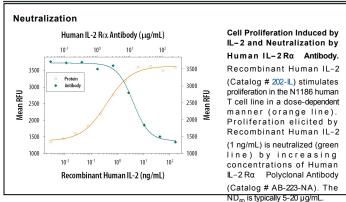
Polyclonal Goat IgG Catalog Number: AB-223-NA

Species Reactivity	Human		
Specificity	Detects human IL-2 Rα in direct ELISAs and Western blots. In these formats, less than 5% cross-reactivity with recombinant human		
	(rh) IL-2 R β , rhIL-2 R γ , and rhIL-15 R is observed.		
Source	Polyclonal Goat IgG		
Purification	Protein A or G purified		
Immunogen	recombinant human IL-2 Rα extracellular domain		
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.		
Formulation	lation Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.		

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.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	Recombinant Human IL-2 Rα (Catalog # 223-2A)
Neutralization	, ,	to neutralize IL-2-induced proliferation in the N1186 human T cell line. The Neutralization IIIy 5-20 μg/mL in the presence of 1 ng/mL Recombinant Human IL-2.

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 1 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.	

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

Human IL-2 receptor alpha (IL-2 Ra), also known as Tac antigen and as CD25, was initially identified as a 55 kDa membrane glycoprotein that is capable of binding IL-2. The IL-2 Rα cDNA encodes a 272 amino acid residue precursor Type I membrane protein with a 21 residue signal peptide, a 219 residue extracellular region, a 19 residue transmembrane region and a 13 residue cytoplasmic domain. IL-2 Rα lacks structural features characteristic of members of the cytokine receptor superfamily. By itself, IL-2 Rα binds IL-2 with low affinity. However, when IL-2 Rα is associated with the IL-2 receptor beta and gamma chains, a high affinity heterotrimeric receptor complex that transduces IL-2 signals is formed.

Soluble forms of many cytokine receptors have been reported, and a soluble form of IL-2 Ra (IL-2 sRa) appears in serum, concomitant with its increased expression on cells. The function of the soluble IL-2 Ra is unclear. Increased levels of IL-2 sRa in biological fluids reportedly correlate with increased T and B cell activation and immune system activation. Increased serum concentration of IL-2 sRa has been observed in patients with a variety of inflammatory conditions and in the course of some leukemias and lymphomas.



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