

Human IL-1 RI Antibody

Polyclonal Goat IgG Catalog Number: AB-269-NA

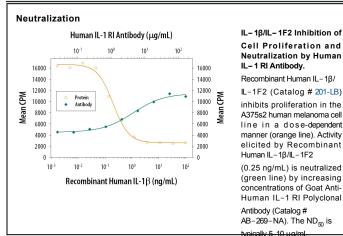
DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human IL-1 RI in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 5–10% cross-reactivity with recombinant human IL-1 RII is observed.	
Source	Polyclonal Goat IgG	
Purification	Protein A or G purified	
Immunogen	S. frugiperda insect ovarian cell line Sf 21-derived recombinant human IL-1 RI	
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.	

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.

	Recommended Concentration	Sample	
Western Blot	1 μg/mL	Recombinant Human IL-1 RI (Catalog # 269-1R)	
Neutralization	Measured by its ability to neutralize IL-1 β /IL-1F2-induced inhibition of proliferation in the A375s2 human melanoma cell line. The Neutralization Dose (ND ₅₀) is typically 5-10 μ g/mL in the presence of 0.25 μ g/mL Recombinant		
	Human IL-1β/IL-1F	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. 	

BACKGROUND

Two distinct types of receptors that bind the pleiotropic cytokines IL-1 α and IL-1 β have been described. The IL-1 receptor Type I is an 80 kDa transmembrane protein that is expressed predominantly by T cells, fibroblasts, and endothelial cells. IL-1 receptor Type II is a 68 kDa transmembrane protein found on B lymphocytes, neutrophils, monocytes, large granular leukocytes and endothelial cells. Both receptors are members of the immunoglobulin superfamily and show approximately 28% sequence identity in their extracellular domains. The two receptor types do not heterodimerize into a receptor complex.

An IL-1 receptor accessory protein that can heterodimerize with the Type I receptor in the presence of IL-1α or IL-1β but not IL-1ra, was identified (1). This Type I receptor complex appears to mediate all the known IL-1 biological responses. The receptor Type II has a short cytoplasmic domain and does not transduce IL-1 signals. In addition to the membrane-bound form of IL-1 RII, a naturally-occurring soluble form of IL-1 RII has been described. It has been suggested that the Type II receptor, either as the membrane-bound or as the soluble form, serves as a decoy for IL-1 and inhibits IL-1 action by blocking the binding of IL-1 to the signaling Type I receptor complex. Recombinant IL-1 soluble receptor Type I is a potent antagonist of IL-1 action.

References

1. Greenfeder, S. et al. (1995) J. Biol. Chem. 270:13757.



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