

Polyclonal Goat IgG Catalog Number: AB-227-NA

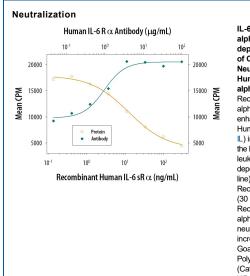
DESCRIPTION

Species Reactivity	Human		
Specificity	Detects human IL-6R alpha in direct ELISAs and Western blots. In direct ELISAs, less than 2% cross-reactivity with recombinant mouse IL-6R alpha and recombinant human LIF 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-6R alpha Leu20-Asp358 Accession # P08887		
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

DATA

	Recommended Concentration	Sample	
Western Blot	1 µg/mL	Recombinant Human IL-6 Rα (Catalog # 227-SR)	
Neutralization	Measured by its ability to neutralize IL-6 Rα-mediated inhibition of proliferation in the M1 mouse myeloid leukemia cell line. The Neutralization Dose (ND ₅₀) is typically 1-4 μg/mL in the presence of 30 ng/mL Recombinant Human IL-6 Rα and 30 ng/mL Recombinant Human IL-6.		



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. 		

Rev. 10/10/2019 Page 1 of 2



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Human IL-6R alpha Antibody

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BACKGROUND

The multi-functional factor interleukin 6 (IL-6) exerts its activities through binding to a high-affinity receptor complex consisting of two membrane glycoproteins: an 80 kDa component receptor that binds IL-6 with low affinity (IL-6 $R\alpha$) and a signal-transducing component of 130 kDa (gp130) that does not bind IL-6 by itself, but is required for high-affinity binding of IL-6 by the complex. Both components of the receptor complex, IL-6 R α and gp130 have been cloned, sequenced, and expressed (1-4).

A soluble form of the IL-6 R α has been found in the urine of healthy adult humans (5). This soluble receptor apparently arises from proteolytic cleavage of membrane-bound IL-6 R α and is about 50kDa in size. No naturally-occurring mRNA encoding a truncated form of the IL-6 R α has been reported. Soluble forms of human and murine IL-6 R α have been constructed, however, by insertion of termination codons into the regions of the IL-6 R α cDNAs encoding the external portions of the receptors and prior to the transmembrane domains. These soluble receptors have been expressed in COS-7 and CHO cells and have been shown to bind to IL-6 in solution and to augment the activity of IL-6 as a result of the binding of the IL-6/IL-6 R α complex to membrane-bound gp130 (6, 7).

References:

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- 2. Baumann et al. (1990) J. Biol. Chem. 265:19853.
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- 4. Schooltink et al. (1991) Eur. J. Biochem. 277:659.
- 5. Novick et al. (1989) J. Exp. Med. 170:1409.
- 6. Yasukawa et al. (1990) J. Biochem. 108:673.
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Rev. 10/10/2019 Page 2 of 2



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