

For Research Use Only

# CD126/IL-6R alpha Recombinant antibody

Catalog Number: 83688-4-RR



## Basic Information

<b>Catalog Number:</b> 83688-4-RR	<b>GenBank Accession Number:</b> BC132684	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul, Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3570	<b>CloneNo.:</b> 240734D1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P08887	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG	<b>Full Name:</b> interleukin 6 receptor	
	<b>Calculated MW:</b> 468 aa, 52 kDa	
	<b>Observed MW:</b> 65 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : RAW 264.7 cells,
<b>Species Specificity:</b> mouse	

## Background Information

Interleukin-6 (IL-6) is a pleiotropic cytokine produced by a variety of cells during infection, trauma, and immunological challenge (PMID: 8274730). IL-6 acts via a receptor complex consisting of two distinct membrane-bound glycoproteins, an 80-kDa IL-6-binding subunit (IL-6R alpha, CD126, gp80) and a 130-kDa signal-transducing element (gp130, CD130). After binding of IL-6 to membrane-bound IL-6R, the complex of IL-6 and IL-6R associates with gp130, thus activating the receptor (PMID: 9716487). Expression of gp130 is found in almost all organs while IL-6R is predominantly confined to hepatocytes and leukocyte subpopulations (monocytes, neutrophils, T cells, and B cells) (PMID: 11149892).

## Storage

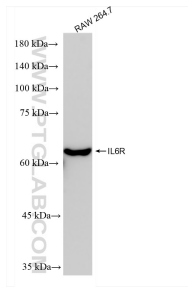
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1%BSA**

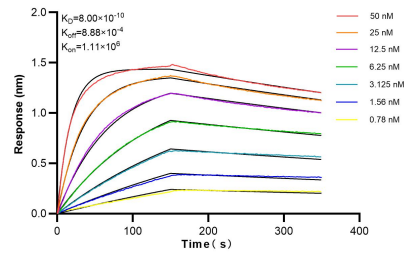
For technical support and original validation data for this product please contact:  
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W: ptglab.com

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## Selected Validation Data



RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 83688-4-RR (CD126/IL-6R alpha antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 83688-4-RR against Human CD126/IL-6R alpha were performed. The affinity constant is 0.80 nM.