

For Research Use Only

# CD126/IL-6R alpha Monoclonal antibody

Catalog Number: 66855-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 66855-1-Ig	<b>GenBank Accession Number:</b> BC132684	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul, Concentration: 1900 ug/ml by Nanodrop and 667 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3570	<b>CloneNo.:</b> 2A5F4
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P08887	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:200-1:800
<b>Isotype:</b> IgG1	<b>Full Name:</b> interleukin 6 receptor	
<b>Immunogen Catalog Number:</b> AG18263	<b>Calculated MW:</b> 468 aa, 52 kDa	
	<b>Observed MW:</b> 80 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : human spleen tissue, Human peripheral blood leukocyte IHC : human liver cancer tissue, human tonsillitis tissue
<b>Cited Applications:</b> IF	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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 alpha, the complex of IL-6 and IL-6R alpha associates with gp130, thus activating the receptor (PMID: 9716487). Expression of gp130 is found in almost all organs while expression of IL-6R alpha is predominantly confined to hepatocytes and leukocyte subpopulations (monocytes, neutrophils, T cells, and B cells) (PMID: 11149892). Soluble form of IL-6R alpha has been found in human serum and urine (PMID: 2529343; 1545125).

## Notable Publications

Author	Pubmed ID	Journal	Application
Dongqing Gu	38881895	Front Immunol	IF

## 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

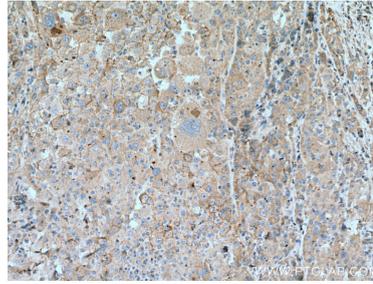
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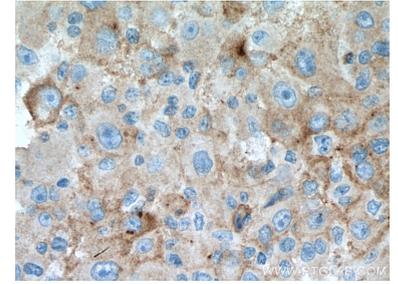
## Selected Validation Data



human spleen tissue were subjected to SDS PAGE followed by western blot with 66855-1-Ig (IL6R alpha antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66855-1-Ig (IL6R alpha antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66855-1-Ig (IL6R alpha antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).