

For Research Use Only

# CD126/IL-6R alpha Monoclonal antibody

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



## Basic Information

Catalog Number: 66855-1-Ig	GenBank Accession Number: BC132684	Purification Method: Protein G purification
Concentration: 1900 ug/ml	GeneID (NCBI): 3570	CloneNo.: 2A5F4
Source: Mouse	UNIPROT ID: P08887	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:200-1:800
Isotype: IgG1	Full Name: interleukin 6 receptor	
Immunogen Catalog Number: AG18263	Calculated MW: 468 aa, 52 kDa Observed MW: 80 kDa	

## Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Cited Applications: IF	WB : human spleen tissue, Human peripheral blood leukocyte
Species Specificity: human	IHC : human liver cancer tissue, human tonsillitis tissue
Cited Species: 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

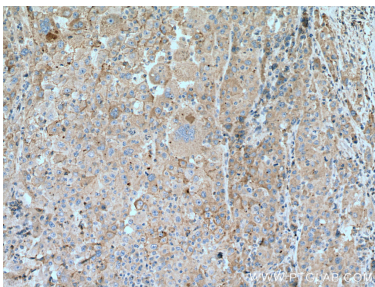
For technical support and original validation data for this product please contact:  
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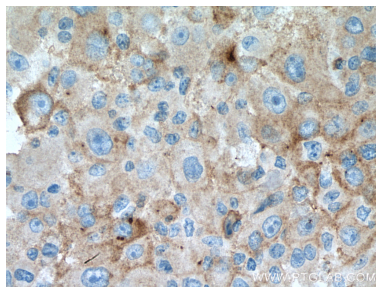
## Selected Validation Data



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).