

For Research Use Only

# Mouse IL-6 Recombinant antibody, PBS Only

Catalog Number: 83795-7-PBS



## Basic Information

<b>Catalog Number:</b> 83795-7-PBS	<b>GenBank Accession Number:</b> NM_031168	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 16193	<b>CloneNo.:</b> 240701B9
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P08505	
<b>Isotype:</b> IgG	<b>Full Name:</b> interleukin 6	
<b>Immunogen Catalog Number:</b> EG0973	<b>Calculated MW:</b> 24 kDa	

## Applications

**Tested Applications:**  
IHC, Indirect ELISA

**Species Specificity:**  
mouse

## Background Information

Interleukin-6 (IL-6) is an interleukin that acts as both a pro-inflammatory and anti-inflammatory cytokine. IL-6 protein is secreted by a variety of cell types including T cells and macrophages as phosphorylated and variably glycosylated molecule. IL-6 plays an essential role in the final differentiation of B-cells into Ig-secreting cells involved in lymphocyte and monocyte differentiation. It induces myeloma and plasmacytoma growth and induces nerve cells differentiation. Acts on B-cells, T-cells, hepatocytes, hematopoietic progenitor cells and cells of the CNS. IL-6 is also considered a myokine, a cytokine produced from muscle, and is elevated in response to muscle contraction. IL-6 has been shown to interact with interleukin-6 receptor and glycoprotein 130. Additionally, IL-6 is involved in hematopoiesis, bone metabolism, and cancer progression, and has been defined an essential role in directing transition from innate to acquired immunity.

## Storage

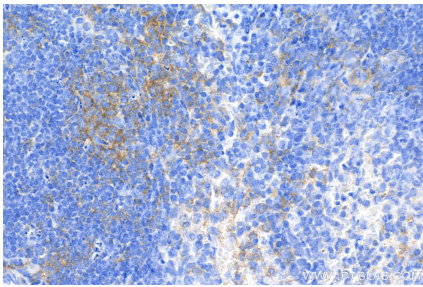
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

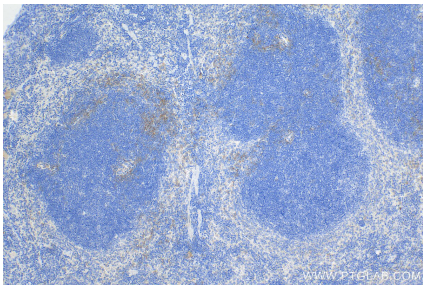
For technical support and original validation data for this product please contact:  
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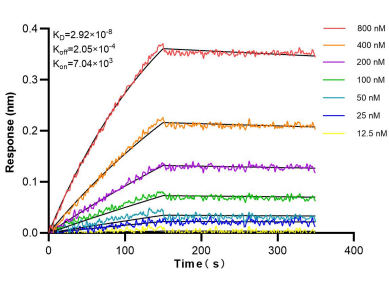
## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 83795-7-RR (IL-6 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83795-7-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 83795-7-RR (IL-6 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83795-7-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 83795-7-RR against Mouse IL-6 were performed. The affinity constant is 29.2 nM.