

For Research Use Only

# IL-6 Monoclonal antibody, PBS Only

Catalog Number: 66146-1-PBS

Featured Product



## Basic Information

<b>Catalog Number:</b> 66146-1-PBS	<b>GenBank Accession Number:</b> BC015511	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3569	<b>CloneNo.:</b> 1A3B4
<b>Source:</b> Mouse	<b>ENSEMBL Gene ID:</b> ENSG00000136244	
<b>Isotype:</b> IgG2b	<b>UNIPROT ID:</b> P05231	
<b>Immunogen Catalog Number:</b> AG10646	<b>Full Name:</b> interleukin 6 (interferon, beta 2)	
	<b>Calculated MW:</b> 212 aa, 24 kDa	
	<b>Observed MW:</b> 24 kDa	

## Applications

**Tested Applications:**  
WB, IF/ICC, ELISA

**Species Specificity:**  
human

## 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.

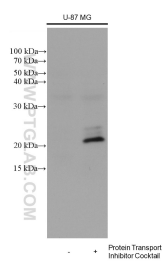
**Storage Buffer:**  
PBS Only

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

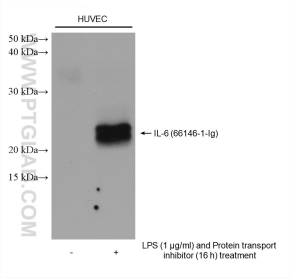
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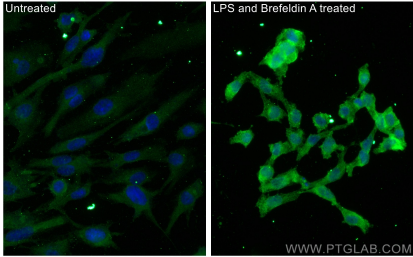
Selected Validation Data



Non-treated and protein transport inhibitor treated U-87 MG cells were subjected to SDS PAGE followed by western blot with 66146-1-Ig (IL-6 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66146-1-PBS in a different storage buffer formulation.



Non-treated, LPS and protein transport inhibitor treated HUVEC cells were subjected to SDS PAGE followed by western blot with 66146-1-Ig (IL-6 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66146-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Methanol) fixed LPS and Brefeldin A treated HUVEC cells using IL-6 antibody (66146-1-Ig, Clone: 1A3B4 ) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1). This data was developed using the same antibody clone with 66146-1-PBS in a different storage buffer formulation.