

For Research Use Only

# IL-6 Polyclonal antibody

Catalog Number: 21865-1-AP

Featured Product

534 Publications



## Basic Information

<b>Catalog Number:</b> 21865-1-AP	<b>GenBank Accession Number:</b> BC015511	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 650 µg/ml	<b>GeneID (NCBI):</b> 3569	<b>Recommended Dilutions:</b> WB 1:500-1:2000
<b>Source:</b> Rabbit	<b>ENSEMBL Gene ID:</b> ENSG00000136244	
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P05231	
<b>Immunogen Catalog Number:</b> AG10565	<b>Full Name:</b> interleukin 6 (interferon, beta 2)	
	<b>Calculated MW:</b> 212 aa, 24 kDa	
	<b>Observed MW:</b> 20 kDa	

## Applications

<b>Tested Applications:</b> FC, WB, ELISA	<b>Positive Controls:</b> WB : LPS and Protein transport inhibitor treated HUVEC cells,
<b>Cited Applications:</b> WB, IF, IHC, ELISA, Neutralization, Cell treatment	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human, goat, pig, canine, bovine	

## 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yanliang Wu	34601083	J Ethnopharmacol	
Qian Chen	32997272	J Nat Med	
Donghui Yang	32996162	J Cell Physiol	

## 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:

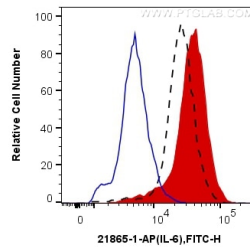
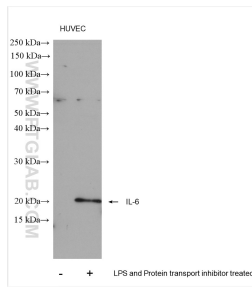
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



Untreated HUVEC cells, HUVEC cells (treated with 0.5  $\mu\text{g}/\text{ml}$  LPS for 24 hours, then add 300 ng/ml protein transport inhibitor last 20 hours) were subjected to SDS PAGE followed by western blot with 21865-1-AP (IL-6 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

$1 \times 10^6$  HUVEC cells untreated (dashed lines), LPS and Brefeldin A treated (red) were intracellularly stained with 0.5  $\mu\text{g}$  Anti-Human IL-6 (21865-1-AP) and CoraLite<sup>®</sup>488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000, or 0.5  $\mu\text{g}$  Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with Intracellular Staining Permeabilization Wash Buffer.