

For Research Use Only

IL-6 Monoclonal antibody

Catalog Number: 66146-1-Ig **60 Publications**



Basic Information

Catalog Number: 66146-1-Ig	GenBank Accession Number: BC015511	Purification Method: Protein A purification
Size: 150ul , Concentration: 1800 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 3569	CloneNo.: 1A3B4
Source: Mouse	Full Name: interleukin 6 (interferon, beta 2)	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:50-1:500
Isotype: IgG2b	Calculated MW: 212 aa, 24 kDa	
Immunogen Catalog Number: AG10646	Observed MW: 24 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : U-87 MG cells, Jurkat cells, Recombinant protein IHC : human tonsillitis tissue, human heart tissue
Cited Applications: ELISA, IF, IHC, WB	
Species Specificity: human	
Cited Species: human, mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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
Qingtao Meng	34634699	J Hazard Mater	IF
Wen-Lin Cheng	34603600	Oxid Med Cell Longev	WB
Ling Li	34532973	J Cell Mol Med	IHC

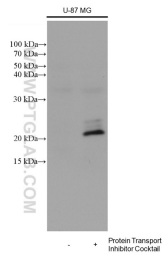
Storage

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

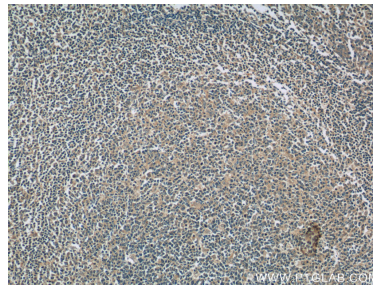
For technical support and original validation data for this product please contact:
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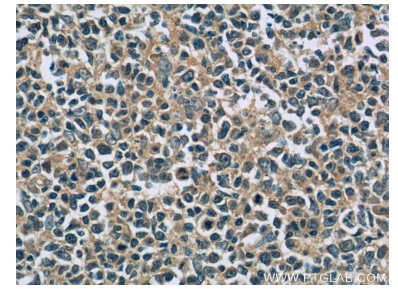
Selected Validation Data



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.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66146-1-ig (IL-6 antibody at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66146-1-ig (IL-6 antibody at dilution of 1:50 (under 40x lens).