

For Research Use Only

# IL-11 Monoclonal antibody, PBS Only (Detector)

Catalog Number: 68135-1-PBS



## Basic Information

<b>Catalog Number:</b> 68135-1-PBS	<b>GenBank Accession Number:</b> BC012506	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3589	<b>CloneNo.:</b> 1F3A12
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P20809	<b>Affinity:</b> $K_D = 1.80 \times 10^{-9}M$
<b>Isotype:</b> IgG2b	<b>Full Name:</b> interleukin 11	$K_{off} = 2.20 \times 10^{-6}M$
<b>Immunogen Catalog Number:</b> AG11199	<b>Calculated MW:</b> 199 aa, 21 kDa	$K_{on} = 1.22 \times 10^3M$
	<b>Observed MW:</b> 21 kDa	

## Applications

**Tested Applications:**  
WB, Cytometric bead array, Sandwich ELISA, Indirect ELISA, Sample test

**Species Specificity:**  
human

## Product Information

68135-1-PBS targets IL-11 as part of a matched antibody pair:

MP50054-1: 68135-2-PBS capture and 68135-1-PBS detection (validated in Cytometric bead array, Sandwich ELISA)

Unconjugated mouse monoclonal antibody pair in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## Background Information

Interleukin-11 (IL-11) is a member of the glycoprotein-130 (GP-130) cytokines that utilizes the GP-130 signaling pathway shared by other cytokines of the same family. The most well-known role of IL-11 is in hematopoiesis because it promotes megakaryocytopoiesis, erythropoiesis, and thrombopoiesis. In recognition of these properties, human IL-11 recombinant protein (rhIL-11) is used clinically for treating chemotherapy-induced thrombocytopenia. IL-11 has extensive immunomodulatory effects, both anti- and proinflammatory.

## Storage

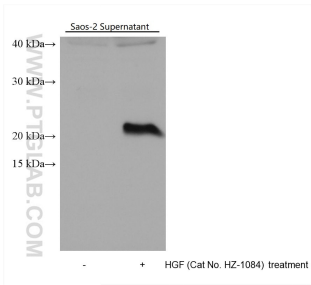
**Storage:**  
Store at -80°C.

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

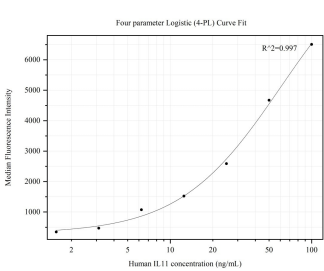
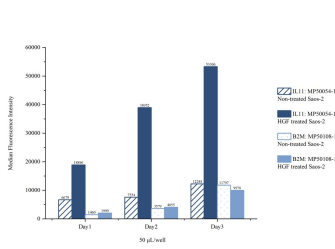
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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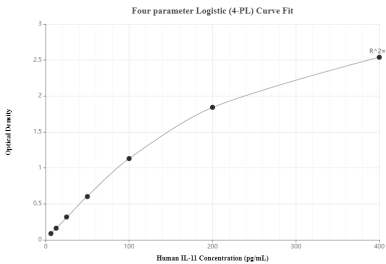
Selected Validation Data



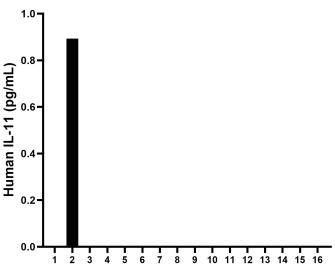
Saos-2 cell supernatant (cells stimulated with 500ng/mL HGF for 4 days) were subjected to SDS PAGE followed by western blot with 68135-1-Ig (IL-11 antibody) at dilution of 1:12000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68135-1-PBS in a different storage buffer formulation.



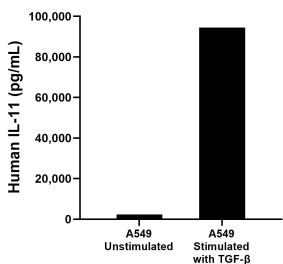
Cytometric bead array standard curve of MP50054-1, IL11 Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 68135-2-PBS. Detection antibody: 68135-1-PBS. Standard: Ag11199. Range: 1.563-100 ng/mL



Sandwich ELISA standard curve of MP50054-1, IL11 Monoclonal Matched Antibody Pair - PBS only. 68135-2-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag11199. 68135-1-PBS was biotinylated as the detection antibody. Range: 6.25-400 pg/mL



Serum of sixteen individual healthy human donors was measured. All samples measured less than the lowest human IL-11 standard, 6.25 pg/mL



A549 cells were cultured unstimulated or stimulated with 2 ng/mL human TGF-β for 2 days. The mean IL-11 concentration was determined to be 2,309.9 pg/mL in unstimulated A549 supernatant, 94,433.7 pg/mL in stimulated A549 supernatant.