

For Research Use Only

# Rat IL-6 Recombinant antibody, PBS Only (Capture)



Catalog Number: 83179-2-PBS

## Basic Information

<b>Catalog Number:</b> 83179-2-PBS	<b>GenBank Accession Number:</b> NM_012589.2	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 24498	<b>CloneNo.:</b> 240003G2
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P20607	
<b>Isotype:</b> IgG	<b>Full Name:</b> interleukin 6	
	<b>Calculated MW:</b> 24 kDa	

## Applications

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

**Species Specificity:**  
rat

## Product Information

83179-2-PBS targets IL-6 as part of a matched antibody pair:

MP00264-2: 83179-2-PBS capture and 83179-3-PBS detection (validated in Cytometric bead array, Sandwich ELISA)

MP00264-3: 83179-2-PBS capture and 83179-1-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

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.

## Storage

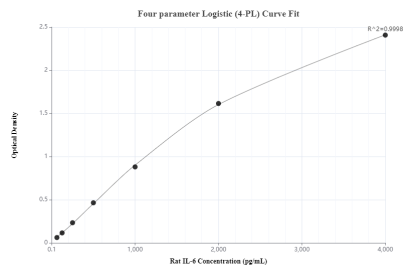
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

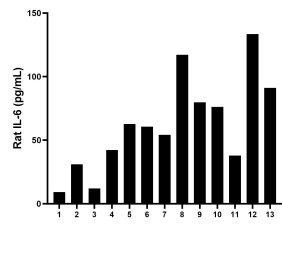
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

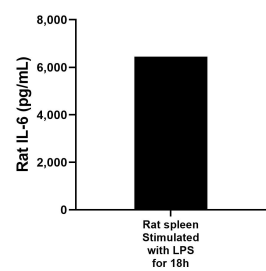
Selected Validation Data



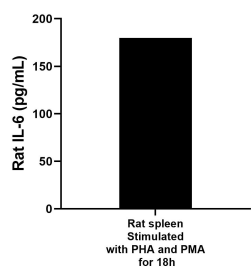
Sandwich ELISA standard curve of MP00264-2, Rat IL-6 Monoclonal Matched Antibody Pair - PBS only. 83179-2-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg0800. 83179-3-PBS was HRP conjugated as the detection antibody. Range: 62.5-4000 pg/mL



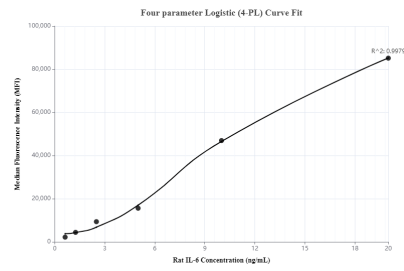
Sixteen rat serum samples were evaluated for rat IL-6 in this assay. Fourteen samples were measured below the minimum standard of 62.5 pg/mL. The measured results of the two samples were 117.15 pg/mL and 133.51 pg/mL, respectively.



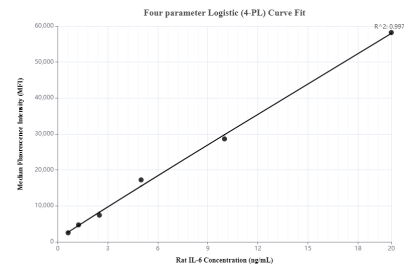
Three rats were given an intraperitoneal injection of 100 µg/kg of LPS. All rats were killed 4 hours after receiving LPS. Spleens were harvested and broken into individual cells by using homogenizer. Ratspleen conditioned media was collected after culturing in 60 mL of RPMI supplemented with 10% fetal bovine serum and stimulated with 1 µg/mL of LPS for 18 hours. An aliquot of the cell culture supernatant was removed, assayed for rat IL-6 and measured 6,449.6 pg/mL



One rat spleen was cultured for 18 hours in RPMI 1640 supplemented with 10% fetal bovine serum, 50 µM β-mercaptoethanol, 2 mM L-glutamine, and 100 µg/mL of streptomycin sulfate. The cells were stimulated with 10 µg/mL of PHA and 10 ng/mL of PMA. An aliquot of the cell culture supernatant was removed, assayed for rat IL-6 and measured 179.7 pg/mL



Cytometric bead array standard curve of MP00264-2, Rat IL-6 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83179-2-PBS. Detection antibody: 83179-3-PBS. Standard: Eg0800. Range: 0.625-20 ng/mL



Cytometric bead array standard curve of MP00264-3, Rat IL-6 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83179-2-PBS. Detection antibody: 83179-1-PBS. Standard: Eg0800. Range: 0.625-20 ng/mL