

For Research Use Only

# Rat IL-4 Recombinant antibody, PBS Only (Capture)

Catalog Number: 84422-3-PBS



## Basic Information

<b>Catalog Number:</b> 84422-3-PBS	<b>GenBank Accession Number:</b> NM_201270.1	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 287287	<b>CloneNo.:</b> 241249E11
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P20096	
<b>Isotype:</b> IgG	<b>Full Name:</b> interleukin 4	
	<b>Calculated MW:</b> 16kDa	

## Applications

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

**Species Specificity:**  
rat

## Product Information

84422-3-PBS targets IL-4 as part of a matched antibody pair:

MP01293-2: 84422-3-PBS capture and 84422-2-PBS detection (validated in Cytometric bead array)

MP01293-4: 84422-3-PBS capture and 84422-5-PBS detection (validated in Sandwich ELISA)

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.

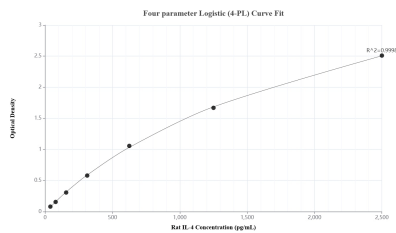
## Storage

**Storage:**  
Store at -80°C.  
**Storage Buffer:**  
PBS Only

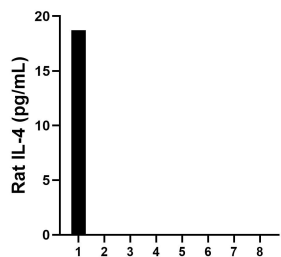
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

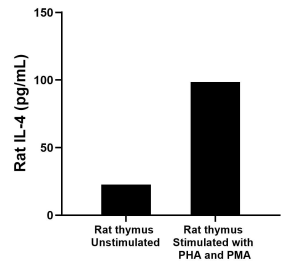
## Selected Validation Data



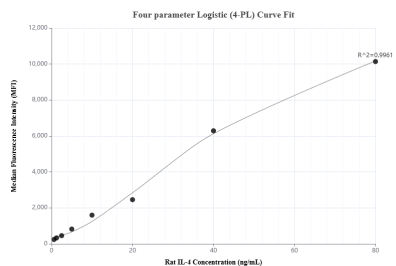
Sandwich ELISA standard curve of MP01293-4, Rat IL-4 Recombinant Matched Antibody Pair - PBS only. 84422-3-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg1113. 84422-5-PBS was Biotin conjugated as the detection antibody. Range: 39.1-2500 pg/mL.



Serum of eight individual healthy human donors was measured. Seven measured less than the lowest rat IL-4 standard, 39.1 pg/mL. One sample read 18.7 pg/mL.



One rat thymus was cultured for 18 hours in RPMI 1640 supplemented with 10% fetal bovine serum, 50  $\mu$ M  $\beta$ -mercaptoethanol, 2 mM L-glutamine, and 100  $\mu$ g/mL of streptomycin sulfate. The cells were stimulated with 5  $\mu$ g/mL of PHA and 50 ng/mL of PMA for 7 days. An aliquot of the cell culture supernatant was removed, assayed for rat IL-4 and measured 98.5 pg/mL.



Cytometric bead array standard curve of MP01293-2, RAT IL-4 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84422-3-PBS. Detection antibody: 84422-2-PBS. Standard: Eg1113. Range: 0.625-80 ng/mL.