

For Research Use Only

# Rat TNF-alpha Recombinant antibody, PBS Only (Capture)

Catalog Number: 82863-3-PBS



## Basic Information

<b>Catalog Number:</b> 82863-3-PBS	<b>GenBank Accession Number:</b> BC107671	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 24835	<b>CloneNo.:</b> 5H8
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P16599	
<b>Isotype:</b> IgG	<b>Full Name:</b> tumor necrosis factor (TNF superfamily, member 2)	
<b>Immunogen Catalog Number:</b> EG31374		

## Applications

**Tested Applications:**  
Sandwich ELISA, Indirect ELISA, Sample test

**Species Specificity:**  
rat

## Product Information

82863-3-PBS targets TNF-alpha as part of a matched antibody pair:

MP02049-1: 82863-3-PBS capture and 82863-7-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.

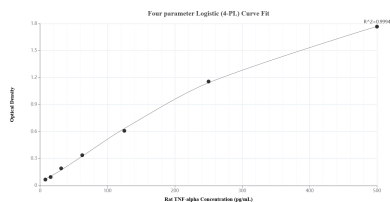
## Storage

**Storage:**  
Store at -80°C.  
**Storage Buffer:**  
PBS only, pH7.3

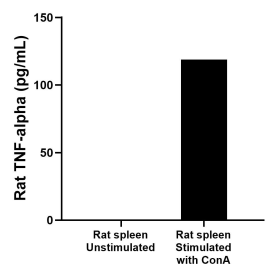
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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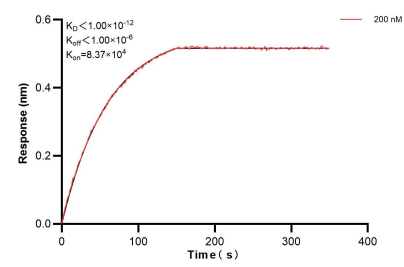
## Selected Validation Data



Sandwich ELISA standard curve of MP02049-1, Rat TNF-alpha Recombinant Matched Antibody Pair - PBS only. 82863-3-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg31374. 82863-7-PBS was HRP conjugated as the detection antibody. Range: 7.81-500 pg/mL.



Rat spleens were cut into 1-2 mm pieces and cultured unstimulated or stimulated with 5 µg/mL ConA for 2 days. The mean TNF-alpha concentration was not determined in unstimulated supernatant, 118.8 pg/mL in ConA stimulated supernatant.



Biolayer interferometry (BLI) kinetic assay of 82863-3-PBS against Rat TNF-alpha was performed. The affinity constant is below 1 pM.