

For Research Use Only

# TNFR2/CD120b Recombinant antibody, PBS Only (Detector)

Catalog Number: 98010-1-PBS



## Basic Information

### Catalog Number:

98010-1-PBS

### Size:

1mg, 2mg/ml

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

BC052977

### GeneID (NCBI):

7133

### UNIPROT ID:

P20333

### Full Name:

tumor necrosis factor receptor  
superfamily, member 1B

### Calculated MW:

48 kDa

### Purification Method:

Protein A purification

### CloneNo.:

230328B3

## Applications

### Tested Applications:

Cytometric bead array, Indirect ELISA

### Species Specificity:

human

## Product Information

98010-1-PBS targets TNFR2/CD120b as part of a matched antibody pair:

MP00777-1: 83101-2-PBS capture and 98010-1-PBS detection (validated in Cytometric bead array)

MP00777-2: 83101-3-PBS capture and 98010-1-PBS detection (validated in Cytometric bead array)

MP00777-3: 83101-4-PBS capture and 98010-1-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.

## Background Information

Tumor necrosis factor-alpha (TNFA/TNFSF2) is a multifunctional cytokine that plays a key role in regulating inflammation, immune functions, host defense, and apoptosis (PMID: 16407280). TNFA signals through two distinct cell surface receptors, TNFR1 (TNFRSF1A, CD120a, p55) and TNFR2 (TNFRSF1B, CD120b, p75). TNFR1 is widely expressed, whereas TNFR2 exhibits more restricted expression, being found on CD4 and CD8 T lymphocytes, endothelial cells, microglia, oligodendrocytes, neuron subtypes, cardiac myocytes, thymocytes and human mesenchymal stem cells (PMID: 20489699; 22374304). In contrast to TNFR1, TNFR2 does not have a death domain. TNFR2 only signals for antiapoptotic reactions. However, recent evidence indicates that TNFR2 also signals to induce TRAF2 degradation (PMID: 22374304). Various defects in the TNFR2 pathway, due to polymorphisms in the TNFR2 gene, upregulated expression of TNFR2 and TNFR2 shedding, have been implicated in the pathology of several autoimmune disorders (PMID: 20489699).

## Storage

### Storage:

Store at -80°C. Stable for one year after shipment.

### Storage Buffer:

PBS only

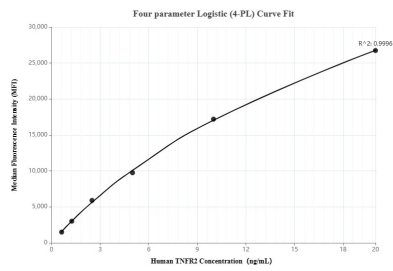
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
in USA), or 1(312) 455-8498 (outside USA)

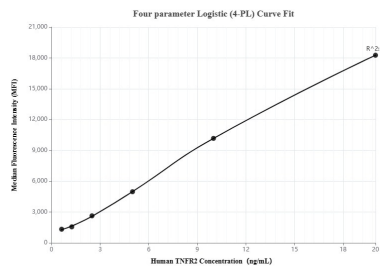
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

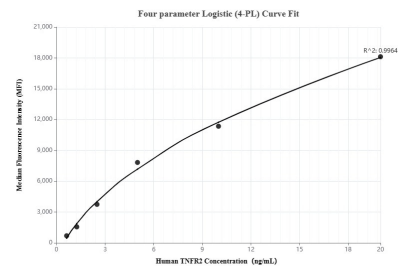
Selected Validation Data



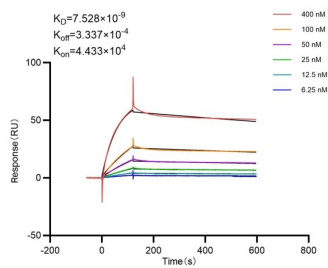
Cytometric bead array standard curve of MP00777-1, TNFR2/CD120b Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83101-2-PBS. Detection antibody: 98010-1-PBS. Standard: Eg0086. Range: 0.625-20 ng/mL



Cytometric bead array standard curve of MP00777-2, TNFR2/CD120b Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83101-3-PBS. Detection antibody: 98010-1-PBS. Standard: Eg0086. Range: 0.625-20 ng/mL



Cytometric bead array standard curve of MP00777-3, TNFR2/CD120b Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83101-4-PBS. Detection antibody: 98010-1-PBS. Standard: Eg0086. Range: 0.625-20 ng/mL



Surface Plasmon Resonance (SPR) kinetic assays of 98010-1-RR against Human TNFR2/CD120b were performed. The affinity constant is 7.52 nM.