

For Research Use Only

# Anti-Human TNFR1/CD120a Rabbit Recombinant Antibody

Catalog Number: 98085-1-RR



## Basic Information

<b>Catalog Number:</b> 98085-1-RR	<b>GenBank Accession Number:</b> BC010140	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, 1000 µg/ml	<b>GeneID (NCBI):</b> 7132	<b>CloneNo.:</b> 241337H6
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P19438	
<b>Isotype:</b> IgG	<b>Full Name:</b> tumor necrosis factor receptor superfamily, member 1A	
	<b>Calculated MW:</b> 455 aa, 50 kDa	

## Applications

**Tested Applications:**  
FC

**Species Specificity:**  
human

## Background Information

Tumor necrosis factor (TNF) is a multifunctional cytokine that plays a key role in regulating inflammation, immune functions, host defense, and apoptosis (PMID: 16407280). TNF exists in soluble and membrane-bound forms. TNF signals through two distinct cell surface receptors, TNFR1 (TNFRSF1A, CD120a) and TNFR2 (TNFRSF1B, CD120b). Whereas TNFR1 is widely expressed, expression of TNFR2 is limited to cells of the immune system, endothelial cells, and nerve cells (PMID: 22053109). TNFR1, which contains a death domain (DD) within its intracytoplasmic region, is thought to be the key receptor for TNF signaling (PMID: 16407280). This receptor can activate NF- $\kappa$ B, mediate apoptosis, and function as a regulator of inflammation. Antiapoptotic protein BCL2-associated athanogene 4 (BAG4/SODD) and adaptor proteins TRADD and TRAF2 have been shown to interact with this receptor, and thus play regulatory roles in the signal transduction mediated by the receptor.

## Storage

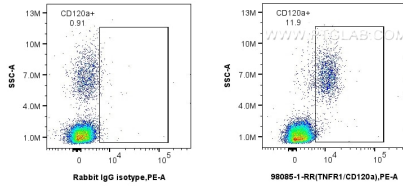
**Storage:**  
Store at 2 - 8°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.09% sodium azide, pH 7.3.

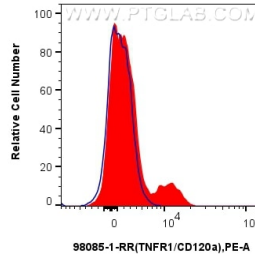
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
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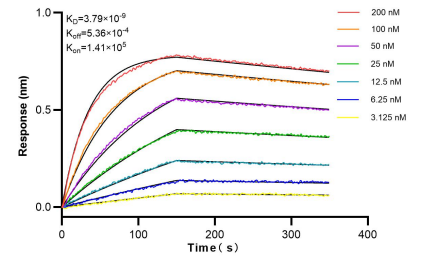
## Selected Validation Data



$1 \times 10^6$  human peripheral blood leukocytes were surface stained with 0.25  $\mu$ g Anti-Human TNFR1/CD120a Rabbit Recombinant Antibody (98085-1-RR, Clone:241337H6) or Isotype Control and PE-conjugated Goat Anti-Rabbit IgG. Cells were incubated with FC Receptor Block prior to fixing and staining. Cells were not fixed.



$1 \times 10^6$  human peripheral blood leukocytes were surface stained with 0.25  $\mu$ g Anti-Human TNFR1/CD120a Rabbit Recombinant Antibody (98085-1-RR, Clone:241337H6) (red) or Isotype Control (blue) and PE-conjugated Goat Anti-Rabbit IgG. Cells were incubated with FC Receptor Block prior to fixing and staining. Cells were not fixed.



Bi-layer interferometry (BLI) kinetic assays of 98085-1-RR against Human TNFR1/CD120a were performed. The affinity constant is 3.79 nM.