

For Research Use Only

Anti-Human TNFR1/CD120a Rabbit Recombinant Antibody

Catalog Number: 98085-1-RR



Basic Information

Catalog Number:

98085-1-RR

Size:

100ug, 1000 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC010140

GeneID (NCBI):

7132

UNIPROT ID:

P19438

Full Name:

tumor necrosis factor receptor
superfamily, member 1A

Calculated MW:

455 aa, 50 kDa

Purification Method:

Protein A purification

CloneNo.:

241337H6

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-κB, 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.

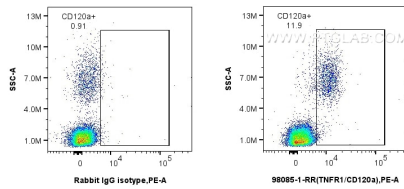
For technical support and original validation data for this product please contact:

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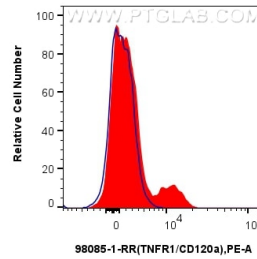
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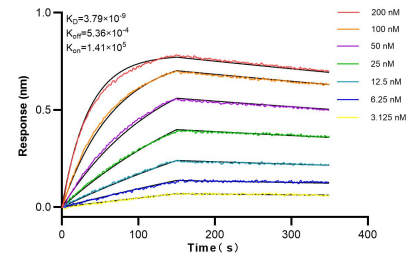
Selected Validation Data



1x10⁶ human peripheral blood leukocytes were surface stained with 0.25 ug 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 staining. Cells were not fixed.



1x10⁶ human peripheral blood leukocytes were surface stained with 0.25 ug 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.



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