

For Research Use Only

Anti-Mouse TNFR2/CD120b Rabbit Recombinant Antibody, PBS Only

Catalog Number: 98021-1-PBS



Basic Information

Catalog Number: 98021-1-PBS	GenBank Accession Number: NM_011610.3	Purification Method: Protein A purification
Size: 1mg, 2 mg/ml	GeneID (NCBI): 21938	CloneNo.: 240200D4
Source: Rabbit	UNIPROT ID: Q545P4	
Isotype: IgG	Full Name: tumor necrosis factor receptor superfamily, member 1b	
	Calculated MW: 50KD	

Applications

Tested Applications:
FC

Species Specificity:
mouse

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

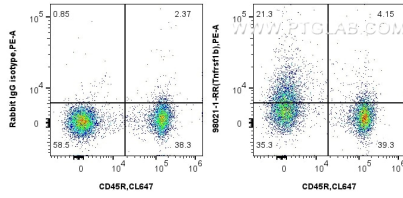
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

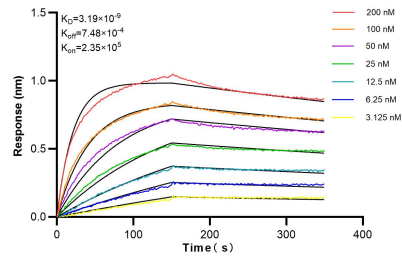
For technical support and original validation data for this product please contact:
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Selected Validation Data



1x10⁶ mouse splenocytes were surface stained with 0.25 ug Anti-Mouse TNFR2/CD120b Rabbit Recombinant Antibody (98021-1-RR, Clone: 240200D4) or 0.25 ug Isotype Control and PE-conjugated Goat Anti-Rabbit IgG. Cells were then stained with CoraLite® Plus 647 Anti-Mouse CD45R (B220). Cells were not fixed. This data was developed using the same antibody clone with 98021-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 98021-1-RR against Mouse Tnfrsf1b were performed. The affinity constant is 3.19 nM.