

For Research Use Only

Mouse TNF-alpha Recombinant antibody, PBS Only

Catalog Number:80258-6-PBS



Basic Information

Catalog Number: 80258-6-PBS	GenBank Accession Number: NM-013693	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 21926	CloneNo.: 240702B7
Source: Rabbit	UNIPROT ID: P06804	
Isotype: IgG	Full Name: tumor necrosis factor	
	Observed MW: 25-26 kDa	

Applications

Tested Applications:
WB, IF/ICC, ELISA

Species Specificity:
mouse

Background Information

TNF, as also known as TNF-alpha, or cachectin, is a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. It is expressed as a 26 kDa membrane bound protein and is then cleaved by TNF-alpha converting enzyme (TACE) to release the soluble 17 kDa monomer, which forms homotrimers in circulation. It is produced chiefly by activated macrophages, although it can be produced by many other cell types such as CD4+ lymphocytes, NK cells, neutrophils, mast cells, eosinophils, and neurons. It can bind to, and thus functions through its receptors TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. This cytokine is involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. Mouse and human TNF-alpha share 79% amino acid sequence identity. Unlike human TNF-alpha, the mouse form is glycosylated. In mouse deficiency of this gene is associated with defects in response to bacterial infection, with defects in forming organized follicular dendritic cell networks and germinal centers, and with a lack of primary B cell follicles.

Storage

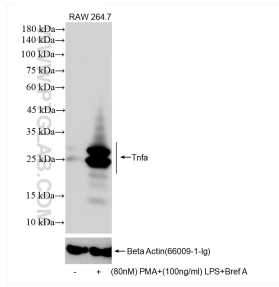
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

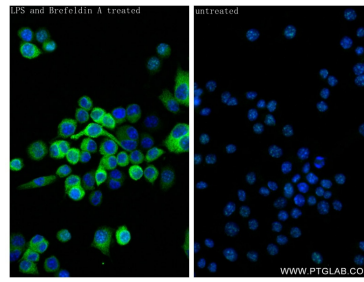
For technical support and original validation data for this product please contact:
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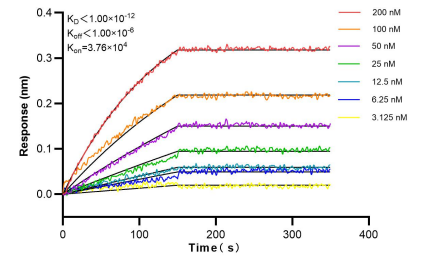
Selected Validation Data



PMA, LPS and Brefeldin A treated RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 80258-6-RR (Tnfa antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80258-6-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed LPS and Brefeldin A treated RAW 264.7 cells using Tnfa antibody (80258-6-RR, Clone: 240702B7) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 80258-6-PBS in a different storage buffer formulation.



Bi-layer interferometry (BLI) kinetic assays of 80258-6-RR against Mouse Tnfa were performed. The affinity constant is below 1 pM.