

For Research Use Only

TNF-alpha Recombinant monoclonal antibody

Catalog Number:80260-2-RR



Basic Information

Catalog Number: 80260-2-RR	GenBank Accession Number: NM-013693	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 21926	CloneNo.: 240702A5
Source: Rabbit	UNIPROT ID: P06804	Recommended Dilutions: IHC: 1:1000-1:4000
Isotype: IgG	Full Name: tumor necrosis factor	
Immunogen Catalog Number: EG31366		

Applications

Tested Applications: IHC, ELISA	Positive Controls: IHC : mouse spleen tissue,
Species Specificity: mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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 -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

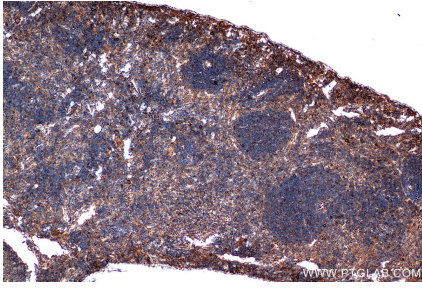
For technical support and original validation data for this product please contact:

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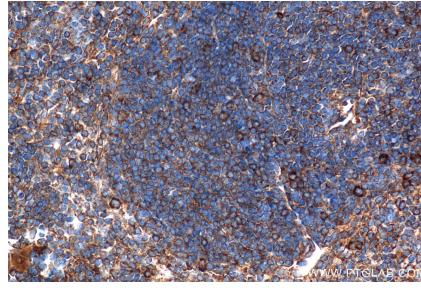
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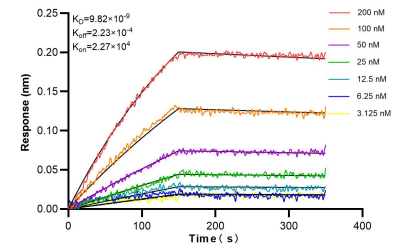
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 80260-2-RR (Tnfa antibody) at dilution of 1:2000 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 80260-2-RR (Tnfa antibody) at dilution of 1:2000 (under 40x lens).



Bi-layer interferometry (BLI) kinetic assays of 80260-2-RR against Mouse TNF-alpha were performed. The affinity constant is 9.82 nM.