

Basic Information

Product Name	Anti-TNF Alpha/TNF Antibody	
Gene Name	TNF	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	mouse, rat	
Tested Application	WB, ICC/IF, FCM, ELISA	
Contents	500 ug/ml antibody with PBS , 0.02% NaN ₃ , 1 mg BSA and 50% glycerol.	
Immunogen	E.coli-derived mouse TNF alpha/Tnf recombinant protein (Position: D89-E185).	
concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	25KD	
Dilution Ratios	Western blot(WB):	1:500-2000
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-400
	Flow cytometry (FCM):	1-3 µg/1x10 ⁶ cells
	ELISA:	1:100-1000
	(Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

TNF alpha(Tumor Necrosis Factor alpha) gene encodes a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. This cytokine is mainly secreted by macrophages. It can bind to, and thus functions through its receptors TNFRSF1A/TNFR1 and TNFRSF1B/TNFB. This cytokine is involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. This cytokine has been implicated in a variety of diseases, including autoimmune diseases, insulin resistance, and cancer. Knockout studies in mice also suggested the neuroprotective function of this cytokine.

Reference

Anti-TNF Alpha/TNF Antibody被引用在5文献中。

Selected Validation Data

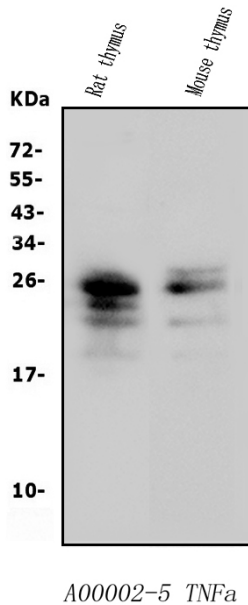


Figure 1. Western blot analysis of anti- TNF alpha/Tnf antibody (A00002-5).The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: rat thymus tissue lysates,Lane 2: mouse thymus tissue lysates.Use rabbit anti- TNF alpha/Tnf 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for TNF alpha/Tnf at approximately 25KD. The expected band size for TNF alpha/Tnf is at 25KD.

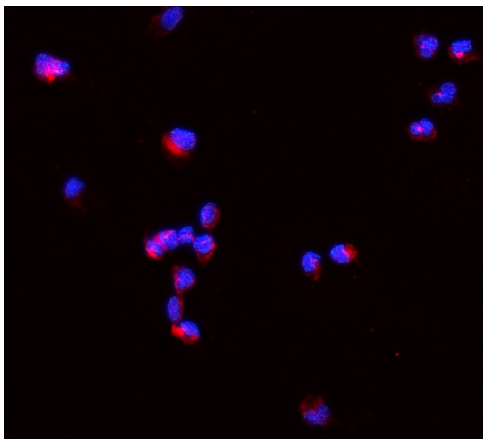


Figure 2.ICC analysis using anti- TNF alpha/Tnf antibody (A00002-5). was detected in immersion fixed mouse HEPA1-6 cell line . Cells were stained using the DyLight550-conjugated Anti-rabbit IgG Secondary Antibody (red)(Catalog # BA1135) and counterstained with DAPI (blue).

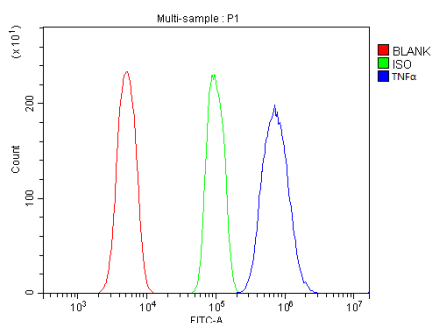


Figure 3.Flow cytometry analysis of RAW264.7 cell (1x10⁶) DyLight 488 conjugated goat anti-rabbit IgG(blue) was used as secondary antibody.Isotype control antibody (Green line) was rabbit IgG DyLight 488. Unlabelled sample (Red line).