

Basic Information

Product Name	Anti-TNF Alpha/TNF Antibody	
Gene Name	TNF	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human,mouse,rat	
Tested Application	WB, IHC, FCM	
Contents	500 ug/ml antibody with PBS , 0.02% NaN ₃ , 1 mg BSA and 50% glycerol.	
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human TNF alpha(201-233aa QLEKGDRLSAEINRPDYLDFAESGQVYFGIIAL), different from the related mouse sequence by five amino acids, and rat sequence by seven amino acids.	
concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	25KD	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Flow cytometry (FCM): 1-3 $\mu\text{g}/1 \times 10^6$ cells (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/TNFBFR. 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18文献中。

Selected Validation Data

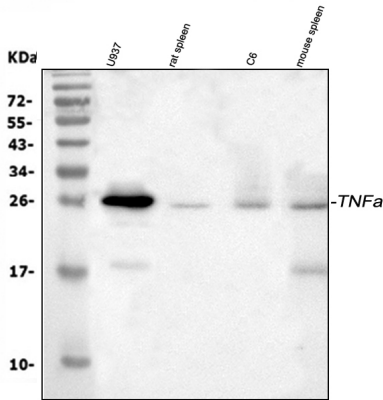


Figure 1. Western blot analysis of anti- TNFA/TNF Alpha antibody (BA0131). The sample well of each lane was loaded with 30ug of sample under reducing conditions.

Lane 1: human U-937 whole cell lysates,

Lane 2: rat spleen tissue lysates,

Lane 3: rat C6 whole cell lysates,

Lane 4: mouse spleen tissue lysates.

Use rabbit anti- TNFA/TNF Alpha 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 TNFA/TNF Alpha at approximately 25KD. The expected band size for TNFA/TNF Alpha is at 26KD.

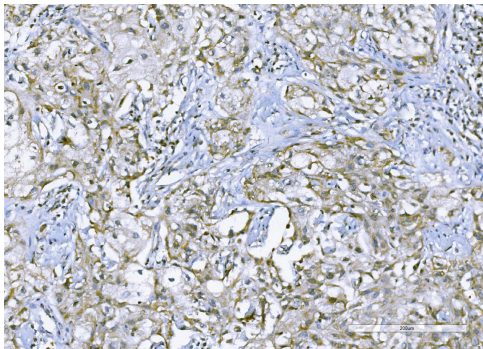


Figure 2. IHC analysis using anti- TNFA/TNF Alpha antibody (BA0131). detected in paraffin-embedded section of human B lymphocytic tumor tissue. Peroxidase Conjugated goat anti-rabbit IgG was used as secondary antibody. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog#SV0002) with DAB as the chromogen.

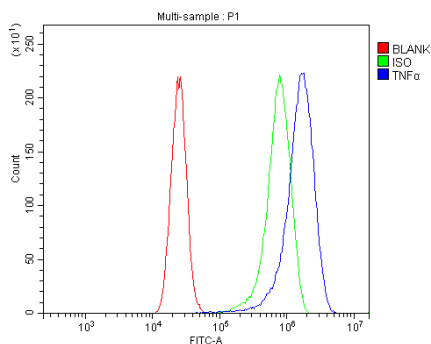


Figure 3. Flow cytometry analysis of Caco-2 cell (1x10⁶) DyLight 488 conjugated goat anti- rabbit IgG(blue) was used as secondary antibody. Isotype control antibody (Green line) was rabbit IgG used under the same conditions. Unlabelled sample (Red line) was also used as a control.