**TNFA Antibody**

Cat.#: AF7014  
Concn.: 1mg/ml  
Mol.Wt.: 17/30-35kDa  
Size: 50ul,100ul,200ul  
Source: Rabbit  
Clonality: Polyclonal

Application:  
WB 1:500, IHC 1:50-1:200, IF/ICC 1:100-1:500,  
ELISA(peptide) 1:20000-1:40000

Reactivity:  
Human,Mouse,Rat

Purification:  
The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

Specificity:  
TNFA Antibody detects endogenous levels of total TNFA.

Immunogen:  
A synthesized peptide derived from human TNFA, corresponding to a region within the internal amino acids.

Uniprot:  
P01375

Description:  
This 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/TNFBR. This cytokine is involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation.

Similarity:  
Belongs to the tumor necrosis factor family.

Storage Condition and Buffer:  
PBS, pH 7.4, 50% glycerol.

Western blot analysis of extracts from various samples, using TNFA Antibody.  
Lane 1: UV treated MCF7 cells, blocked with antigen-specific peptides,  
Lane 2: UV treated MCF7 cells,  
Lane 3: Serum starvation treated 293,  
Lane 4: H2O2 treated HepG2 cells.
Western blot analysis of extracts from rat brain, using TNFA Antibody. The lane on the right was treated with blocking peptide.

AF7014 at 1/100 staining Rat colon tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

AF7014 at 1/100 staining Human normal tissues adjacent to lung cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

AF7014 at 1/100 staining Human mammary cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

AF7014 at 1/100 staining Human colorectal cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

AF7014 at 1/100 staining human colon carcinoma tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.
AF7014 staining A-431 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody (Red), diluted at 1/600, was used as secondary antibody.

**IMPORTANT:** For western blot, incubate membrane with diluted primary Ab in 5% w/v milk, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.