



## Anti-TNF Rabbit Polyclonal Antibody

Catalog No.	EM10277-01	EM10277-02
Size	50µl	100µl
Species reactivity:	Human	Molecular Weight: 26KD

**Background:** TNF- $\alpha$ , the prototypical member of the TNF protein superfamily, is a homotrimeric type-II membrane protein (1,2). Membrane-bound TNF- $\alpha$  is cleaved by the metalloprotease TACE/ADAM17 to generate a soluble homotrimer (2). Both membrane and soluble forms of TNF- $\alpha$  are biologically active. TNF- $\alpha$  is produced by a variety of immune cells including T cells, B cells, NK cells, and macrophages (1). Cellular response to TNF- $\alpha$  is mediated through interaction with receptors TNF-R1 and TNF-R2 and results in activation of pathways that favor both cell survival and apoptosis depending on the cell type and biological context. Activation of kinase pathways (including JNK, Erk (p44/42), p38 MAPK, and NF- $\kappa$ B) promotes the survival of cells, while TNF- $\alpha$ -mediated activation of caspase-8 leads to programmed cell death (1,2). TNF- $\alpha$  plays a key regulatory role in inflammation and host defense against bacterial infection, notably *Mycobacterium tuberculosis* (3). The role of TNF- $\alpha$  in autoimmunity is underscored by blocking TNF- $\alpha$  action to treat rheumatoid arthritis and Crohn's disease (1,2,4).

**All Names:** TNF ; TNFSF2; DIF; Tumor necrosis factor; TNF a; TNF alpha

**Immunogen:** C term -peptide of human TNF

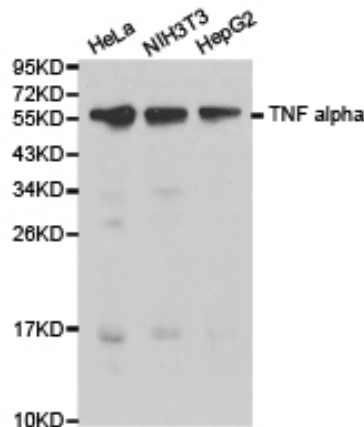
**Application:** WB: 1:1,000-3000 IHC:1:50- 1:100

Optimal dilutions/concentrations should be determined by the end user.

**Form:** Liquid ,1mg/ml

**Storage buffer:** PBS, pH 7.4, containing 0.02% **sodium azide** as Preservative and 50% Glycerol.

**Storage:** Store at -20°C. Do not aliquot the antibody.



Western blot analysis of extracts of various cell lines, using TNF $\alpha$  antibody.