

# TNF alpha

Cat#: R1203-1

<b>Product Type</b>	Rabbit Polyclonal IgG, primary Ab	<b>Tested Applications</b>	WB, ELISA
<b>Species Cross-reactivity</b>	Mouse	<b>Product Lot#</b>	See on the tube
<b>Positive control</b>	Recombinant murine TNF alpha	<b>Form</b>	Liquid
<b>Cellular Localization</b>	Secreted, membrane	<b>Molecular Wt.</b>	17kDa
<b>Database links</b>	P06804		

**Description:** TNF- $\alpha$ , the prototypical member of the TNF protein superfamily, is a homotrimeric type-II membrane protein. Membrane bound TNF- $\alpha$  is cleaved by the metalloprotease TACE/ADAM17 to generate a soluble homotrimer. 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. TNF- $\alpha$  plays a key regulatory role in inflammation and host defense against bacterial infection, notably Mycobacterium tuberculosis.

The antibody detects active recombinant murine TNF alpha. The detective sensitivity by Western Blot is 5ng.

**Specificity/Source:** This antibody is produced by immunizing rabbits with a synthetic peptide (KLH-coupled) corresponding to a region of TNF alpha.

**Recommended Dilutions:**

WB: 1:500-1:1,000

ELISA: 1:10,000-20,000

**Storage Buffer:** 1\*TBS (pH7.4), no preservative, sterile filtered.

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

**Purity:** Immunogen affinity purified

**Background References:**

1. Aggarwal, B.B. (2003) Nat Rev Immunol 3, 745-56.
2. Hehlhans, T. and Pfeffer, K. (2005) Immunology 115, 1-20.
3. Lin, P.L. et al. (2007) J Investig Dermatol Symp Proc 12, 22-5.
4. Brennan, F.M. and McInnes, I.B. (2008) J Clin Invest 118, 3537-45.

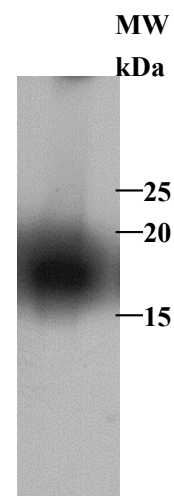


Fig1: Western Blot analysis of recombinant murine TNF-alpha using rabbit TNF alpha antibody.