

TNF $\alpha$ 

Mouse monoclonal Antibody

#55100

**Catalog Number:** 55100**Amount:** 100 $\mu$ g/100 $\mu$ l**Swiss-Prot No. :** P01375**GENE ID:** 7124**Form of Antibody:** Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol**Storage/Stability:** Store at -20 $^{\circ}$ C/1 year**Purification:** affinity-chromatography**Specificity/Sensitivity:** This antibody detects endogenous levels of TNF $\alpha$  and does not cross-react with related proteins**Alternative Names:** DIF; TNFA; TNFSF2; TNF-alpha**Reactivity:** Human, Mouse, Rat**Applications:**

Predicted MW: 17kd      WB:1:1000-2000      IHC:1:50-200



Western blot analysis of Recombinant Human TNF  $\alpha$  Protein with TNF  $\alpha$  Mouse mAb

**Background:** TNF-alpha (tumor necrosis factor alpha) is an important cytokine produced by numerous cell types including neutrophils, activated lymphocytes, macrophages and NK cells. It plays a critical role in inflammatory responses and in apoptosis. TNF-alpha is believed to mediate pathogenic shock and tissue injury associated with endotoxemia. TNF-alpha exists as a multimer of two, three, or five non covalently linked units, but shows a single 17 kDa band following SDS PAGE under non reducing conditions. Although it has little effect on many cultured normal human cells, TNF-alpha appears to be directly toxic to vascular endothelial cells. Other actions of TNF-alpha include stimulating growth of human fibroblasts and other cell lines, activating polymorphonuclear neutrophils and osteoclasts, and induction of interleukin 1, prostaglandin E2 and collagenase production. TNF-alpha is currently being evaluated in treatment of certain cancers and AIDS Related Complex.