

TNF

Reactivity:Human Mouse Rat

Tested applications:WB IHC

Recommended Dilution:WB 1:1000 - 1:2000 IHC 1:50 - 1:100

Calculated MW:26kDa

Observed MW:Refer to Figures

Immunogen:

Recombinant protein of human TNF

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

bip

Synonym:

TNF ; TNFSF2; DIF; Tumor necrosis factor; TNF α ; TNF alpha

Catalog #:A0277

Antibody Type:

Polyclonal Antibody

Species:Rabbit

Gene ID:7124

Isotype:IgG

Swiss Prot:P01375

Purity:Affinity purification

For research use only.

Background:

TNF α , the prototypical member of the TNF protein superfamily, is a homotrimeric type-II membrane protein (1,2). Membrane-bound TNF α is cleaved by the metalloprotease TACE/ADAM17 to generate a soluble homotrimer (2). Both membrane and soluble forms of TNF α are biologically active. TNF α is produced by a variety of immune cells including T cells, B cells, NK cells, and macrophages (1). Cellular response to TNF α 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- κ B) promotes the survival of cells, while TNF α -mediated activation of caspase-8 leads to programmed cell death (1,2). TNF α plays a key regulatory role in inflammation and host defense against bacterial infection, notably Mycobacterium tuberculosis (3). The role of TNF α in autoimmunity is underscored by blocking TNF α action to treat rheumatoid arthritis and Crohns disease (1,2,4).

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