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36-3279: Anti-TNF-alpha (Tumor Necrosis Factor alpha) Monoclonal Antibody(Clone: J1D9)

Clonality: Monoclonal

Clone Name: J1D9
Application: FACS,IF
Reactivity: Human
Gene: TNF
Gene ID: 7124
Uniprot ID: P01375

APC1, Cachectin, Differentiation inducing factor (DIF), Macrophage cytotoxic factor (MCF),

Alternative Name:

Necrosin, TNF alpha, TNF Macrophage Derived, TNF Monocyte Derived, TNF Superfamily

Member 2, TNFA, TNFSF2, Tumor necrosis factor ligand superfamily member 2, Tumor

Necrosis Factor Precursor

Isotype: Mouse IgG1, kappa

Immunogen Information: Recombinant human TNF-alpha

Description

This antibody neutralizes TNF alpha biological activities. It prevents TNF alpha induced apoptosis in Jurkat cells. It also neutralizes HurTNFamediated cytotoxicity of L929 cells and inhibits tumor growth in mice. It protects mice against toxicity of HurTNFa. Tumor Necrosis Factor Alpha (TNF alpha) is a protein secreted by lipopolysaccharide-stimulated macrophages, and causes tumor necrosis when injected into tumor bearing mice. 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 17kDa band following SDS PAGE under non-reducing conditions. TNF alpha is closely related to the 25kDa protein Tumor Necrosis Factor beta (lymphotoxin), sharing the same receptors and cellular actions. TNF alpha causes cytolysis of certain transformed cells, being synergistic with interferon gamma in its cytotoxicity. Althoµgh 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.

Product Info

Amount : $20 \mu g / 100 \mu g$

Content: 200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS

with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage condition : Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody

is stable for 24 months. Non-hazardous.

Application Note

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); Inhibits Tumor Growth (Order Ab without BSA/Azide); Neutralizes rTNF- Mediated Cytotoxicity (Order Ab without BSA/Azide); Protects Mice Against Toxicity of rhTNF- (Order Ab without BSA/Azide)