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36-3278: Anti-TNF-alpha (Tumor Necrosis Factor alpha) Monoclonal Antibody(Clone: 4C6-H8)

Clonality :	Monoclonal
Clone Name :	4C6-H8
Application :	FACS,IF,IHC
Reactivity :	Human, Mouse, Rat
Gene :	TNF
Gene ID :	7124
Uniprot ID :	P01375
Alternative Name :	APC1, Cachectin, Differentiation inducing factor (DIF), Macrophage cytotoxic factor (MCF), 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 IgM, kappa
Immunogen Information :	A hexadecapeptide corresponding to aa115-130 (NGVELRDNQLVVPSEG) of human TNF- , conjÂµgated to thyroglobulin

Description

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. AlthoÂµgh 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.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate. 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);Immunohistochemistry (Formalin-fixed) (2-4ug/ml for 30 min at RT) (Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris Buffer with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes)

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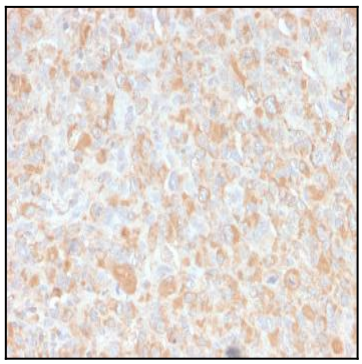


Fig. 1: Formalin-fixed, paraffin-embedded human Histiocytoma stained with TNF alpha Mouse Monoclonal Antibody (4C6-H8).

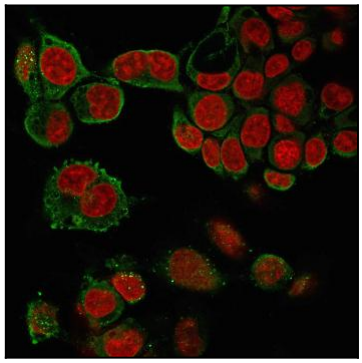


Fig. 2: Immunofluorescence staining of paraformaldehyde-fixed HePG2 cells with TNF alpha Mouse Monoclonal Antibody (4C6-H8) followed by goat anti-Mouse IgG-CF488 (Green). Nuclei are labeled with Reddot (Red).

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