TNF-alpha (Tumor Necrosis Factor alpha) Antibody

Mouse Monoclonal Antibody [Clone MAb1]

Catalog No	Format	Size
7124-MSM7-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
7124-MSM7-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
7124-MSM7-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

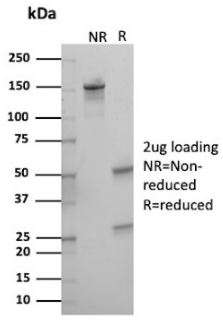
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	

Product Details

Clone	MAb1
Gene Name	TNF
Immunogen	Recombinant human TNF-alpha
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgM / Kappa
Mol. Weight of Antigen	17kDa
Cellular Localization	Cell membrane, Membrane, Secreted
Species Reactivity	Human
Positive Control	HeLa, HL-60, or A431 cells. Macrophages in lymph node or tonsil.

**Optimal dilution for a specific application should be determined.*

Product Images for TNF-alpha (Tumor Necrosis Factor alpha) Antibody



SDS-PAGE Analysis of Purified Tumor necrosis factor Mouse Monoclonal Antibody (MAb1). Confirmation of Purity and Integrity of Antibody.

Specificity & Comments

This MAb recognizes human 17-26kDa protein, which is identified as cytokine TNF-alpha (Tumor Necrosis Factor-alpha). TNF-alpha can be expressed as a 17kDa free molecule, or as a 26kDa membrane protein. 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. 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.

Supplied As

200ug/ml of Ab purified by Protein L. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA at 1.0mg/ml.

Storage and Stability

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. No MSDS required.

Research Areas

AKT Signaling, Apoptosis, Autophagy, Cardiovascular, Colon Cancer, Cytokine Signaling, Developmental Biology, Hematopoietic Stem Cells, Immunology, MAPK Signaling, Neuroinflammation, Ovarian Cancer, Signal Transduction

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.