

TNF-alpha (Tumor Necrosis Factor alpha) Antibody

Mouse Monoclonal Antibody [Clone TNFA/1172]

Catalog No	Format	Size
7124-MSM12-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
7124-MSM12-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
7124-MSM12-P1BX	Purified Ab WITHOUT BSA at 1.0mg/ml	100 ug

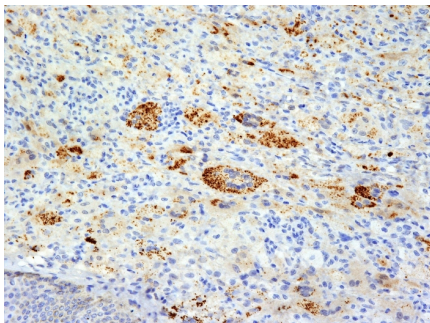
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

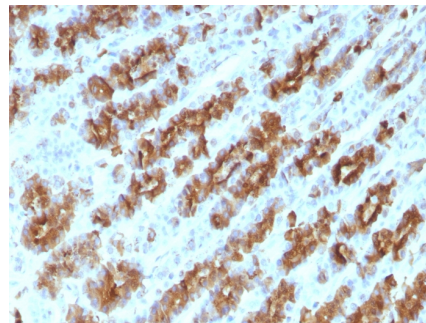
Clone	TNFA/1172
Gene Name	TNF
Immunogen	Recombinant full-length human TNF-alpha protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgM / Kappa
Mol. Weight of Antigen	17kDa
Cellular Localization	Cell membrane, Membrane, Secreted
Species Reactivity	Human, Rat
Positive Control	HeLa, HePG2, HL-60 or A431 cells. Pancreas or Histiocytoma.

*Optimal dilution for a specific application should be determined.

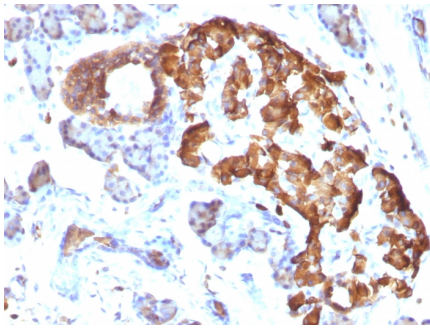
Product Images for TNF-alpha (Tumor Necrosis Factor alpha) Antibody



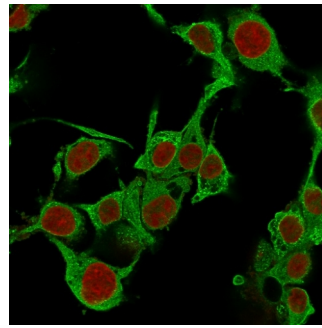
Formalin-fixed, paraffin-embedded human Erdheim-Chester disease (also known as xanthogranuloma) stained with TNF alpha Mouse Monoclonal Antibody (TNFA/1172).



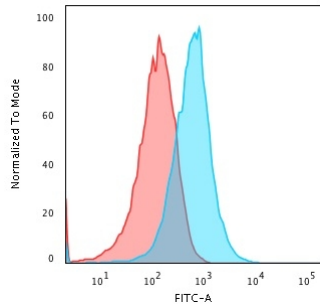
Formalin-fixed, paraffin-embedded Rat Stomach stained with TNF alpha Mouse Monoclonal Antibody (TNFA/1172).



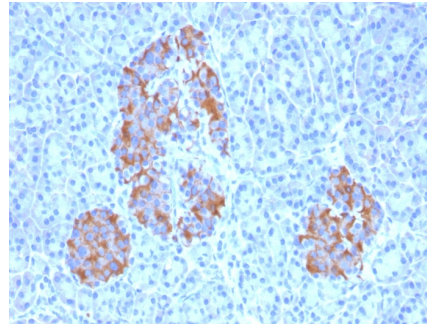
Formalin-fixed, paraffin-embedded Rat Pancreas stained with TNF alpha Mouse Monoclonal Antibody (TNFA/1172).



Immunofluorescence Analysis of PFA-fixed HePG2 cells labeling TNF alpha with TNF alpha Mouse Monoclonal Antibody (TNFA/1172) followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Redot.



Flow Cytometric Analysis of PFA-fixed HePG2 cells using TNF alpha Mouse Monoclonal Antibody (TNFA/1172) followed by Goat anti-Mouse- IgG-CF488 (Blue); Isotype Control (Red).



Formalin-fixed, paraffin-embedded human Pancreas stained with TNF alpha Mouse Monoclonal Antibody (TNFA/1172).

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 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.

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.

Supplied As

200ug/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 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, Immuno Oncology, Immunology, MAPK Signaling, Neuroinflammation, Ovarian Cancer, Signal Transduction