

Mouse TNF-alpha (Tumor Necrosis Factor alpha) Monoclonal Antibody | anti-TNF antibody

TNF-alpha (Tumor Necrosis Factor alpha) Mouse Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA13806	Mouse	Human, Mouse, Rat, Rabbit, Cat, Dog, Zebrafish	Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry

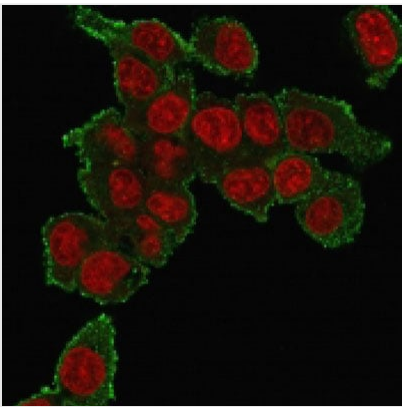
PRODUCT SYNONYMS

TNF-alpha (Tumor Necrosis Factor alpha); Monoclonal Antibody; TNF-alpha (Tumor Necrosis Factor alpha) Mouse Monoclonal Antibody; 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; anti-TNF antibody

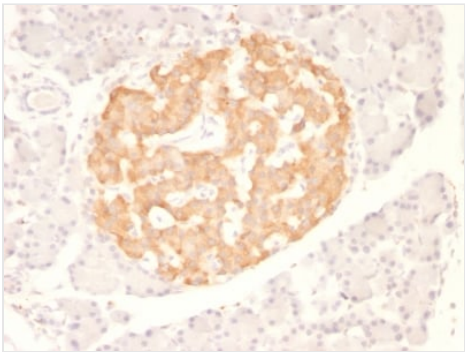
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat, Rabbit, Cat, Dog, Zebrafish
Clonality	Monoclonal
Isotype	IgM, kappa
Clone Number	TNF706
Specificity	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. 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.
Form/Format	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein L. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide.
Sequence Length	233
Applicable Applications for anti-TNF antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry)
Application Notes	Flow Cytometry (0.5-1ug/million cells) Immunofluorescence (1-2ug/ml) Immunohistochemistry (Formalin-paraffin) (2-4ug/ml for 30 min at RT) (Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Tris Buffer with 1mM EDTA, pH 9.0, for 10-20 min followed by cooling at RT for 20 minutes) Optimal dilution for a specific application should be determined.
Cellular Localization	Cytoplasmic and extracellular (Secreted)
Immunogen	Recombinant N-terminal fragment of human TNF-alpha
Hu-Chromosome Location	6p21.33
Positive Control	HePG2, HeLa, HL-60, or A431 cells. Macrophages in lymph node or Tonsil (IHC).
Preparation and Storage	Antibody with azide - store at 2 to 8 °C. Non-hazardous. No MSDS required.

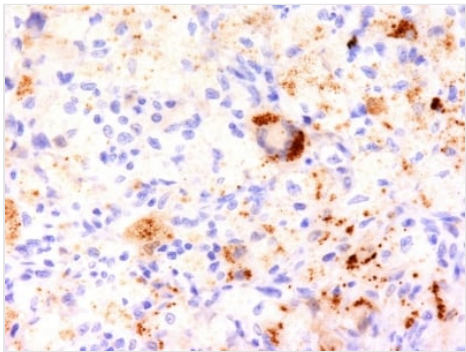
IMAGES



IF (Immunofluorescence)
Immunofluorescence staining of PFA-fixed HePG2 cells using Tumor Necrosis Factor (TNF alpha) Mouse Monoclonal Antibody (TNF706) followed by goat anti-mouse IgG-CF488 (green). Nuclei stained with RedDot.



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded rat pancreas stained with TNF alpha Mouse Monoclonal Antibody (TNF706).



IHC (Immunohistochemistry)
Formalin paraffin-embedded human Erdheim Chester disease (also known as polyostotic sclerosing histiocytosis) stained with TNF alpha Monoclonal Antibody (TNF706).

ADDITIONAL INFORMATION

References	McLaughlin PJ; Elwood NJ; Ramadi LT, Pica MR, McKenzie IF. Improvement in sensitivity of enzyme-linked immunosorbent assay for tumor necrosis factor. Immunol Cell Biol, 1990, 68:51-5.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	25952111
NCBI GeneID	7124
NCBI Accession #	NP_000585.2
NCBI GenBank Nucleotide #	NM_000594.3
UniProt Accession #	P01375; O43647; Q9P1Q2; Q9UIV3
Molecular Weight	17kDa
NCBI Official Full Name	tumor necrosis factor
NCBI Official Synonym Full Names	tumor necrosis factor
NCBI Official Symbol	TNF
NCBI Official Synonym Symbols	DIF; TNFA; TNFSF2; TNLG1F; TNF-alpha
NCBI Protein Information	tumor necrosis factor

UniProt Protein Name	Tumor necrosis factor
UniProt Gene Name	TNF
UniProt Synonym Gene Names	TNFA; TNFSF2; TNF-a; NTF; ICD1; ICD2
UniProt Entry Name	TNFA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/tnf-alpha-tumor-necrosis-factor-alpha-antibody-clone-tnf706-flow-cytometry-immunofluorescence-immunohistochemistry-elisa/13806>