

Datasheet for ABIN872451
anti-TNF alpha antibody



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Overview

Quantity:	100 µL
Target:	TNF alpha
Reactivity:	Human, Pig, Dog
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TNF alpha antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from dog TNF-alpha
Isotype:	IgG
Cross-Reactivity:	Dog, Human, Pig
Purification:	Purified by Protein A.

Target Details

Target:	TNF alpha
Alternative Name:	TNF-alpha (TNF alpha Products)
Background:	Synonyms: APC1, Cachectin, D, Dferentiation inducing factor, Macrophage cytotoxic factor, MCF, Necrosin, TNF a, TNF alpha, TNF, TNF Macrophage Derived, TNF Monocyte Derived, TNF Superfamily Member 2, TNFA, TNFSF2, Tumor necrosis factor ligand superfamily member 2,

Target Details

Tumor Necrosis Factor Precursor, Tumour Necrosis Factor Alpha, TNFA_HUMAN.

Background: Tumor Necrosis Factor Alpha (TNF alpha) is a protein secreted by lipopolysaccharide stimulated macrophages, and causes tumor necrosis when injected into tumour 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 noncovalently linked units, but shows a single 17 kDa band following SDS PAGE under non reducing conditions. TNF alpha is closely related to the 25 kDa protein Tumour Necrosis Factor beta (lymphotoxin), sharing the same receptors and cellular actions. TNF alpha causes cytolysis or cytostasis 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.

Molecular Weight:	17/26kDa
Gene ID:	403922
Pathways:	NF-kappaB Signaling , Apoptosis , Caspase Cascade in Apoptosis , TLR Signaling , Cellular Response to Molecule of Bacterial Origin , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , Positive Regulation of Endopeptidase Activity , Hepatitis C , Protein targeting to Nucleus , Inflammasome

Application Details

Application Notes:	WB (1:100-500),IHC-P (1:100-500),IF (p) (1:100-500)
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	Aqueous buffered solution containing 1 % BSA, 50 % glycerol and 0.09 % sodium azide.
Preservative:	Sodium azide

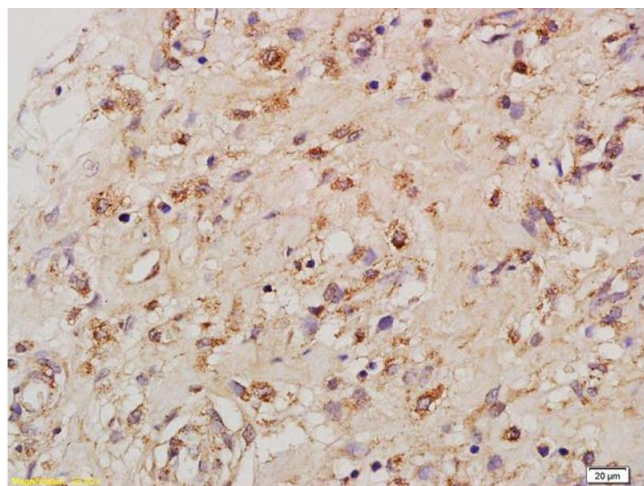
Handling

Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C for 12 months.
Expiry Date:	12 months

Publications

Product cited in:	Zhang, Liu, Hu, Jiang, Zhu: ""Proof-of-principle" concept for ultrasensitive detection of cytokines based on the electrically heated carbon paste electrode." in: Chemical communications (Cambridge, England), Vol. 47, Issue 23, pp. 6551-3, (2011) (PubMed). Liao, Zhou, Ji, Zhang: "Eccentric contraction induces inflammatory responses in rat skeletal muscle: role of tumor necrosis factor-α." in: American journal of physiology. Regulatory, integrative and comparative physiology, Vol. 298, Issue 3, pp. R599-607, (2010) (PubMed).
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Images



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded human lung labeled with Anti-TNF- α Polyclonal Antibody, Unconjugated (ABIN872451) at 1:200 followed by conjugation to the secondary antibody and DAB staining