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Datasheet for ABIN3023860 anti-TNF alpha antibody

3 Images

1 Publication



Overview

Quantity:	100 µg
Target:	TNF alpha
Reactivity:	Human, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TNF alpha antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Recombinant full-length human protein was used as the immunogen for the TNF-alpha antibody.
Clone:	TNFA-1172
lsotype:	IgM kappa
Characteristics:	This mAb recognizes human 17-26 kDa protein, which is identified as cytokine TNF-alpha (Tumor Necrosis Factor-alpha). TNF-alpha can be expressed as a 17 kDa free molecule, or as a 26 kDa 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

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	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.
Purification:	PEG precipitation
Target Details	
Target Details	
Target:	TNF alpha
Alternative Name:	TNF-alpha (TNF alpha Products)
Background:	This mAb recognizes human 17-26 kDa protein, which is identified as cytokine TNF-alpha
	(Tumor Necrosis Factor-alpha). TNF-alpha can be expressed as a 17 $$ kDa free molecule, or as a
	26 kDa 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.
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

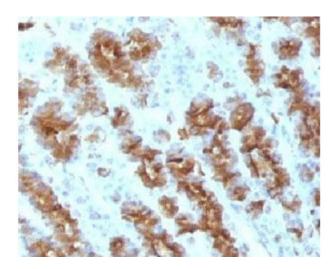
Application Notes:	Optimal dilution of the TNF-alpha antibody should be determined by the researcher.
	1. Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate
	buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min.
	2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After
	epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT
	for 30 min.\. Flow Cytometry: 0.5-1 μ g/million cells in 0.1ml,Immunofluorescence: 1-2 μ
	g/mL,Immunohistochemistry (FFPE): 2-4 μ g/mL for 30 min at RT (1),Prediluted format:

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Application Details

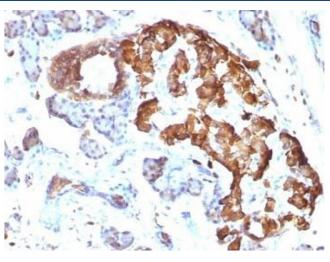
	incubate for 30 min at RT (2)
Restrictions:	For Research Use only
Handling	
Concentration:	1 mg/mL
Buffer:	1 mg/mL in 1X PBS, BSA free, sodium azide free
Preservative:	Azide free
Storage:	4 °C,-20 °C
Storage Comment:	Store the TNF-alpha antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder
	(without azide).
Publications	
Product cited in:	Prasetyo, Sampoerno, Juniarti, Cahyani, Saraswati, Kuntjoro, Tjendronegoro: "Effect of
	Lipopolysaccharide-Induced Apical Periodontitis in Diabetes Mellitus Rats on Periapical
	Inflammation." in: European journal of dentistry, (2023) (PubMed).

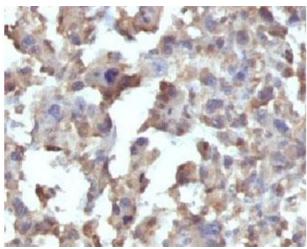
Images



Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections)

Image 1. Formalin-fixed, paraffin-embedded rat stomach stained with TNF alpha antibody.





Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections)

Image 2. Formalin-fixed, paraffin-embedded rat pancreas stained with TNF alpha antibody.

Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections)

Image 3. Formalin-fixed, paraffin-embedded human Histiocytoma stained with TNF alpha antibody (TNFA/1172)

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