

# Datasheet for ABIN2749009

# anti-TNF alpha antibody

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Quantity:	100 μg	
Target:	TNF alpha	
Reactivity:	Human	
Host:	Mouse	
Clonality:	Monoclonal	
Conjugate:	This TNF alpha antibody is un-conjugated	
Application:	Western Blotting (WB), ELISA, Functional Studies (Func)	

## **Product Details**

Purpose:	Anti-TNF alpha Purified Azide Free
Immunogen:	Recombinant human TNF-alpha
Clone:	MAb1
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody MAb1 recognizes human 17-26 kDa cytokine TNF-alpha (tumor necrosis factor alpha).
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

## **Target Details**

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Target:	TNF alpha	
Alternative Name:	TNF alpha (TNF alpha Products)	
Background:	Tumor necrosis factor,TNF-alpha is a cytokine produced by monocytes, macrophages,	
	neutrophils, NK cells, CD4+ T cells and many transformed cells. It can be expressed as a 17 kDa	
	free molecule, or as a 26 kDa membrane protein. TNF-alpha easily forms stable trimers, but	
	also other multimeric complexes. In the immune system, it is an important regulator, which has	
	cytolytic and cytostatic activity against a range of tumor cells, increases fibroblast proliferation	
	and supports neutrophil chemotaxis and phagocytosis.,TNFA, DIF, TNLG1F	
Gene ID:	7124	
UniProt:	P01375	
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:	Functional application: Neutralization.	
	ELISA: It can be used as capture antibody in combination with biotinylated antibody MAb11.	
Restrictions:	For Research Use only	
Handling		
Concentration:	1 mg/mL	
Buffer:	Phosphate buffered saline (PBS), pH 7.4	
Preservative:	Azide free	
Storage:	4 °C	
Storage Comment:	Store at 2-8°C. Do not freeze.	
Publications		
Product cited in:	Yan, Qing, Byers, Stadnyk, Al-Hertani, Bortolussi: "Role of MyD88 in diminished tumor necrosis	
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factor alpha production by newborn mononuclear cells in response to lipopolysaccharide." in:

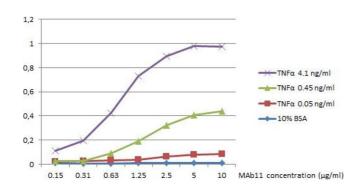
Infection and immunity, Vol. 72, Issue 3, pp. 1223-9, (2004) (PubMed).

Lindholm, Naylor, Johansson, Quiding-Järbrink: "Mucosal vaccination increases endothelial expression of mucosal addressin cell adhesion molecule 1 in the human gastrointestinal tract." in: **Infection and immunity**, Vol. 72, Issue 2, pp. 1004-9, (2004) (PubMed).

Visser, Graffelman, Blauw, Haspels, Lentjes, de Kloet, Nagelkerken: "LPS-induced IL-10 production in whole blood cultures from chronic fatigue syndrome patients is increased but supersensitive to inhibition by dexamethasone." in: **Journal of neuroimmunology**, Vol. 119, Issue 2, pp. 343-9, (2001) (PubMed).

Wahlström, Katchar, Wigzell, Olerup, Eklund, Grunewald: "Analysis of intracellular cytokines in CD4+ and CD8+ lung and blood T cells in sarcoidosis." in: **American journal of respiratory and critical care medicine**, Vol. 163, Issue 1, pp. 115-21, (2001) (PubMed).

### **Images**



#### **ELISA**

**Image 1.** ELISA analysis of TNF alpha (0 - 4.1 ng/mL) using capture antibody MAb1 (5  $\mu$ g/mL) and biotinylated detection antibody MAb11 (0.15 - 10  $\mu$ g/mL).