

Datasheet for ABIN1690734
anti-TNF alpha antibody



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Overview

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

Product Details

Purpose:	Anti-TNF alpha Purified
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

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:	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, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in:

Cesaro-Tadic, Dernick, Juncker, Buurman, Kropshofer, Michel, Fattinger, Delamarche: "High-sensitivity miniaturized immunoassays for tumor necrosis factor alpha using microfluidic systems." in: **Lab on a chip**, Vol. 4, Issue 6, pp. 563-9, (2004) ([PubMed](#)).

Yan, Qing, Byers, Stadnyk, Al-Hertani, Bortolussi: "Role of MyD88 in diminished tumor necrosis factor alpha production by newborn mononuclear cells in response to lipopolysaccharide." in: **Infection and immunity**, Vol. 72, Issue 3, pp. 1223-9, (2004) ([PubMed](#)).

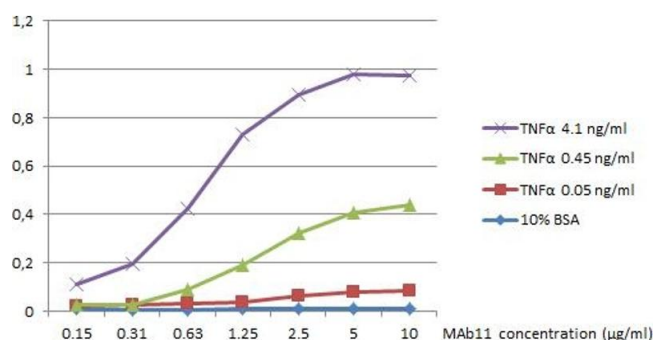
Lindholm, Naylor, Johansson, Quiding-Järbrink: "Mucosal vaccination increases endothelial expression of mucosal addressin cell adhesion molecule 1 in the human gastrointestinal tract." in: **Infection and immunity**, Vol. 72, Issue 2, pp. 1004-9, (2004) ([PubMed](#)).

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](#)).

There are more publications referencing this product on: [Product page](#)

Images



ELISA

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