Datasheet for ABIN1981885

anti-TNF alpha antibody (FITC)

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Overview

Quantity:	100 tests
Target:	TNF alpha
Reactivity:	Human, Pig, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TNF alpha antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Recombinant human TNF-alpha
Clone:	MAb11
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody MAb11 recognizes human 17-26 kDa cytokine TNF-alpha (tumor necrosis factor alpha).
Cross-Reactivity (Details):	Human, Non-Human Primates, Porcine
Purification:	Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	TNF alpha

Target Details

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:	Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µL reagent / 100 µL of whole blood or 10^6 cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests. Intracellular staining.
Comment:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

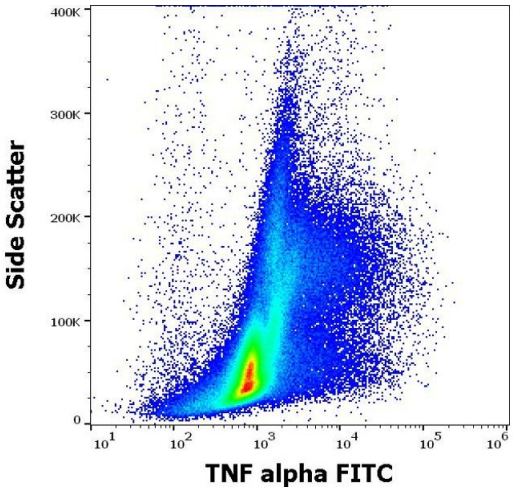
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label. Short-term exposure to room temperature should not affect the quality of the reagent. However,

Handling

	if reagent is stored under any conditions other than those specified, the conditions must be verified by the user.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

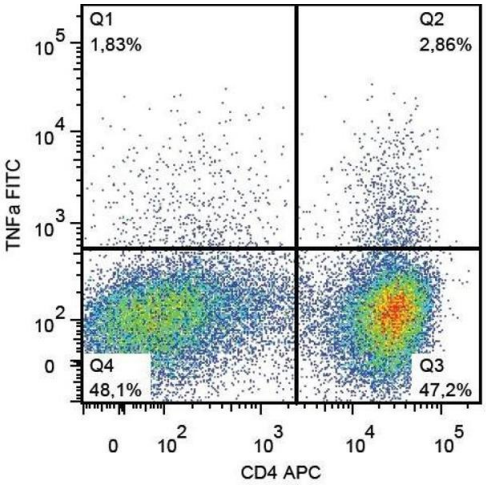
Publications

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). Attarbaschi, Willheim, Ramharter, Hofmann, Wahl, Winkler, Graninger, Winkler: "T cell cytokine profile during primary Epstein-Barr virus infection (infectious mononucleosis)." in: **European cytokine network**, Vol. 14, Issue 1, pp. 34-9, (2003) (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).



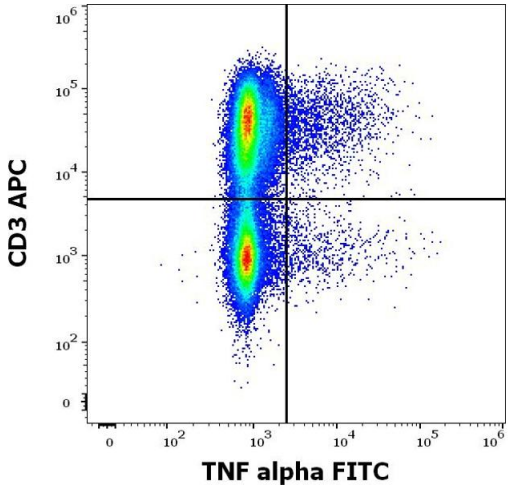
Flow Cytometry

Image 1. Flow cytometry intracellular staining pattern of human PHA stimulated peripheral blood mononuclear cells stained using anti-human TNF alpha (MAb11) FITC antibody (4 µL reagent per milion cells in 100 µL of cell suspension).



Flow Cytometry

Image 2. Intracellular staining of CD3-CD28-stimulated buffy coat cells with anti-TNF alpha (MAb11) FITC.



Flow Cytometry

Image 3. Flow cytometry multicolor intracellular staining pattern of human PHA stimulated peripheral blood mononuclear cells stained using anti-human TNF alpha (MAb11) FITC antibody (4 µL reagent per milion cells in 100 µL of cell suspension). For surface staining was used anti-human CD3 (UCHT1) APC antibody (10 µL reagent per milion cells in 100 µL of cell suspension).

Please check the product details page for more images. Overall 4 images are available for ABIN1981885.