

Datasheet for ABIN1690740  
**anti-TNF alpha antibody (PE)**



[Go to Product page](#)

1 Image 5 Publications

## 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 PE |
| Application: | Intracellular Flow Cytometry (ICFC)         |

## Product Details

|                             |                                                                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:                    | Anti-TNF alpha PE                                                                                                                                                                |
| 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 R-phycoerythrin (PE) under optimum conditions.<br>Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. |

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | TNF alpha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Alternative Name: | TNF alpha ( <a href="#">TNF alpha Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 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:          | <a href="#">P01375</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Pathways:         | <a href="#">NF-kappaB Signaling</a> , <a href="#">Apoptosis</a> , <a href="#">Caspase Cascade in Apoptosis</a> , <a href="#">TLR Signaling</a> , <a href="#">Cellular Response to Molecule of Bacterial Origin</a> , <a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Positive Regulation of Immune Effector Process</a> , <a href="#">Production of Molecular Mediator of Immune Response</a> , <a href="#">Positive Regulation of Endopeptidase Activity</a> , <a href="#">Hepatitis C</a> , <a href="#">Protein targeting to Nucleus</a> , <a href="#">Inflammasome</a> |

## Application Details

|                    |                                                                                                                                                                                                                                                   |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests. Intracellular staining. |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                             |

## Handling

|                    |                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------|
| Reconstitution:    | No reconstitution is necessary.                                                                                        |
| 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:   | <b>Do not freeze.</b><br>Avoid prolonged exposure to light.                                                            |
| Storage:           | 4 °C                                                                                                                   |

## Handling

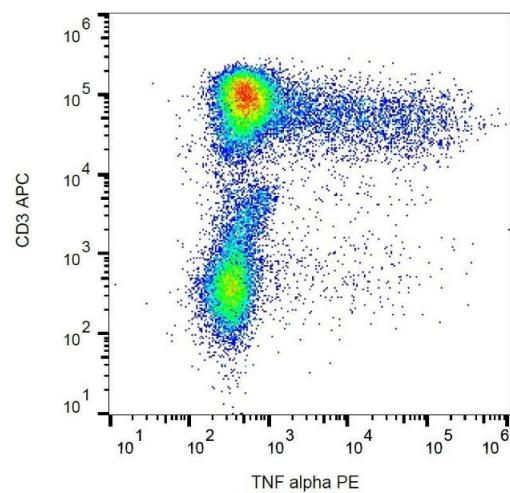
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Storage Comment: Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

## Publications

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- 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.** Intracellular staining of activated human peripheral blood with anti-TNF alpha (MAb11) PE.