

TECHNICAL DATA SHEET

CyFlow™ TNF-alpha PE Anti-Hu; Clone MAb11

REF BG965077

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	TNF- α
Alternative Names	—
Clone	MAb11
Clonality	monoclonal
Format	PE
Host / Isotype	Mouse / IgG1
Species Reactivity	Human, Non-Human Primates Pig
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	Recombinant human TNF α

Specificity

The mouse monoclonal antibody MAb11 recognizes human 17-26 kDa cytokine TNF α (tumor necrosis factor α).

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 10 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

TNF α 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 α 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.

References

- Wahlström J, Katchar K, Wigzell H, Olerup O, Eklund A, Grunewald J: Analysis of intracellular cytokines in CD4+ and CD8+ lung and blood T cells in sarcoidosis. Am J Respir Crit Care Med. 2001 Jan; 163(1):115-21. < PMID: 11208635 >
- Visser J, Graffelman W, Blauw B, Haspels I, Lentjes E, de Kloet ER, Nagelkerken L: LPS-induced IL-10 production in whole blood cultures from chronic fatigue syndrome patients is increased but supersensitive to inhibition by dexamethasone. J Neuroimmunol. 2001 Oct 1; 119(2):343-9. < PMID: 11585638 >
- Attarbaschi T, Willheim M, Ramharter M, Hofmann A, Wahl K, Winkler H, Graninger W, Winkler S: T cell cytokine profile during primary Epstein-Barr virus infection (infectious mononucleosis). Eur Cytokine Netw. 2003 Jan-Mar; 14(1):34-9. < PMID: 12799212 >

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- Cesaro-Tadic S, Dernick G, Juncker D, Buurman G, Kropshofer H, Michel B, Fattinger C, Delamarche E: High-sensitivity miniaturized immunoassays for tumor necrosis factor alpha using microfluidic systems. Lab Chip. 2004 Dec; 4(6):563-9. < PMID: 15570366 >
- Yan SR, Qing G, Byers DM, Stadnyk AW, Al-Hertani W, Bortolussi R: Role of MyD88 in diminished tumor necrosis factor alpha production by newborn mononuclear cells in response to lipopolysaccharide. Infect Immun. 2004 Mar; 72(3):1223-9. < PMID: 14977922 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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