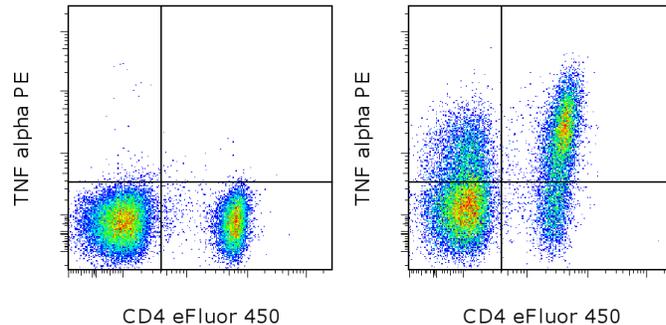


## Anti-Mouse/Rat TNF alpha PE

**Catalog Number:** 12-7423

**Also known as:** Tumor Necrosis Factor alpha

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Mouse splenocytes were unstimulated (left) or stimulated for 5 hours with Cell Stimulation Cocktail (plus protein transport inhibitors) (cat. 00-4975) (right), then intracellularly stained with Anti-Mouse CD4 eFluor<sup>®</sup> 450 (cat. 48-0041) and 0.25 ug of Anti-Mouse/Rat TNF alpha PE. Total viable cells, as determined by Fixable Viability Dye eFluor<sup>®</sup> 780, were used for analysis.

### Product Information

**Contents:** Anti-Mouse/Rat TNF alpha PE

**Catalog Number:** 12-7423

**Clone:** TN3-19

**Concentration:** ug size: 0.2 mg/mL; test size: 5 uL (0.25 ug)/test

**Host/Isotype:** Armenian Hamster IgG

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

**Contains sodium azide**



### Description

The TN3-19.12 monoclonal antibody reacts with mouse, rat, and rabbit tumor necrosis factor-alpha (TNF alpha), but not with human TNF alpha. The TN3-19.12 antibody is a neutralizing antibody. Mouse TNF alpha is a 17 kDa factor produced by macrophages, monocytes, neutrophils, CD4+ T cells and NK cells. A 26 kDa form of TNF alpha is expressed as a membrane-bound molecule. TNF alpha is cytolytic and plays an important role in immune regulation. Dimers and trimers of TNF alpha have been observed.

### Applications Reported

The TN3-19.12 antibody has been reported for use in intracellular staining for flow cytometric analysis, cytokine neutralization, and ELISA. Fluorochrome conjugated TN3-19.12 is recommended for use in intracellular staining and flow cytometry. Functional Grade purified TN3-19.12, cat. 16-7423, is recommended for use in functional assays. For ELISPOT capture, the alternative clone, 1F3F3D4 (cat # 16-7325), is recommended.

### Applications Tested

This TN3-19 antibody has been tested by intracellular staining and flow cytometric analysis of stimulated mouse splenocytes. It is offered in 2 formats:

- ug size: can be used at less than or equal to 0.5 ug per test.
- test size: can be used at 5 uL (0.25 ug) per test.

A test is defined as the amount (ug) of antibody that will stain a cell sample in a final volume of 100 uL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test

### References

Finkelman, F.D., and S.C. Morris. Development of an assay to measure in vivo cytokine production in the mouse. *Int. Immunology*. 1999. 11: 1811-1818.

Finkelman, F., S. Morris, T. Orekhova, and D. Sehy. 2003. The In Vivo Cytokine Capture Assay for measurement of

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cytokine production in the mouse. In Current Protocols in Immunology. Unit 6.28. J. Coligan, A. Kruisbeek, D. Margulies, E. Shevach, and W. Strober, eds. John Wiley and Sons, New York.

Takahashi S, Kapas L, Fang J, Krueger JM. An anti-tumor necrosis factor antibody suppresses sleep in rats and rabbits. Brain Res. 1995. 690: 241-44.

Rabinovici R, Bugelski PJ, Esser KM, Hillegas LM, Griswold DE, Vernick J, Feuerstein G. Tumor necrosis factor-alpha mediates endotoxin-induced lung injury in platelet activating factor-primed rats. Macol Exp Ther. 1993. 267: 1550-57.

Merrick BA, He CY, Craig WA, Clark GC, Corsini E, Rosenthal GJ, Mansfield BK, Selkirk JK. Two dimensional gel electrophoresis of cellular and secreted proteins from rat alveolar macrophages after lipopolysaccharide treatment. Appl Theor Electrophor. 1992. 2: 177-87.

Sheehan KC, Ruddle NH, Schreiber RD. Generation and characterization of hamster monoclonal antibodies that neutralize murine tumor necrosis factors. J Immunol. 1989. 142: 3884-93.

### Related Products

00-4975 Cell Stimulation Cocktail (plus protein transport inhibitors) (500X)

12-4888 Armenian Hamster IgG Isotype Control PE (eBio299Arm)

48-0041 Anti-Mouse CD4 eFluor® 450 (GK1.5)

65-0865 Fixable Viability Dye eFluor® 780

88-8823 Fixation & Permeabilization Buffers

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