

# Anti-Mouse/Rat TNF alpha PE-Cyanine7

Catalog Number: 25-7423

Also known as: Tumor Necrosis Factor alpha RUO: For Research Use Only. Not for use in diagnostic procedures.



## 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.

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Use By: Refer to vial Contains sodium azide

## **Applications Reported**

This TN3-19 antibody has been reported for use in intracellular staining followed by flow cytometric analysis, cytokine neutralization, and ELISA.

## **Applications Tested**

This TN3-19 antibody is offered in 2 formats:

-  $\mu$ g size: has been tested by intracellular staining and flow cytometric analysis of stimulated mouse splenocytes. This can be used at less than or equal to 1  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

- test size: has been pre-titrated and tested by intracellular staining and flow cytometric analysis of stimulated mouse splenocytes. This can be used at 5  $\mu$ L (1  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained

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### samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

### References

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

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

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

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

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

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

### **Related Products**

00-4975 Cell Stimulation Cocktail (plus protein transport inhibitors) (500X) 25-4888 Armenian Hamster IgG Isotype Control PE-Cyanine7 (eBio299Arm) 65-0865 Fixable Viability Dye eFluor® 780 88-7342 Mouse TNFa (Tumor Necrosis Factor alpha) ELISA Ready-SET-Go! Kit (Discontinued. Refer to replacement item 88-7324) 88-8823 Intracellular Fixation & Permeabilization Buffer (plus Brefeldin A) (previously named IC Fixation & Permeabilization Buffer)

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