

Anti-Human TNF alpha PE-Cyanine7

Catalog Number: 25-7349

Also known as: Tumor Necrosis Factor alpha

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

Product Information

Contents: Anti-Human TNF alpha PE-Cyanine7

 **Catalog Number:** 25-7349

Clone: MAb11

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

Host/Isotype: Mouse IgG1, kappa

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. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.

Batch Code: Refer to vial

Use By: Refer to vial

Caution, contains Azide







Description

The MAb11 antibody reacts with human tumor necrosis factor-alpha (TNF alpha), a 17 kDa cytokine produced by monocytes, macrophages, neutrophils, NK cells and CD4+ T cells. TN alpha has cytolytic activity against a range of tumor cells and is important in immune regulation. TNF alpha forms dimers and trimers and also exists as a 26 kDa membrane bound form. The MAb11 antibody is a neutralizing antibody.

Applications Reported

This MAb11 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested

This MAb11 antibody is offered in 2 formats:

- μ g size: has been tested by intracellular staining and flow cytometric analysis of stimulated human peripheral blood cells. This can be used at less than or equal to 0.5 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 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 human peripheral blood cells. This can be used at 5 μ L (0.25 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

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

Andersen H, Rossio JL, Coalter V, Poore B, Martin MP, Carrington M, Lifson JD. Characterization of rhesus macaque natural killer activity against a rhesus-derived target cell line at the single-cell level. Cell Immunol. 2004 Sep-Oct;231(1-2):85-95 (Mab11, crossreactivity to rhesus)

Danis VA, Franic GM, Rathjen DA, Brooks PM. Effects of granulocyte-macrophage colony-stimulating factor (GM-CSF), IL-2, interferon-gamma (IFN-gamma), tumor necrosis factor-alpha (TNF-alpha) and IL-6 on the production of

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immunoreactive IL-1 and TNF-alpha by human monocytes. Clin Exp Immunol. 1991 Jul;85(1):143-50.

Rathjen DA, Cowan K, Furphy LJ, Aston R. Antigenic structure of human tumour necrosis factor: recognition of distinct regions of TNF alpha by different tumour cell receptors. Mol Immunol. 1991 Jan-Feb;28(1-2):79-86.

Related Products

00-8222 IC Fixation Buffer

00-8333 Permeabilization Buffer (10X)

11-0049 Anti-Human CD4 FITC (RPA-T4)

14-8329 Human TNF alpha Recombinant Protein

25-4714 Mouse IgG1 K Isotype Control PE-Cyanine7 (P3.6.2.8.1)

88-8823 Intracellular Fixation & Permeabilization Buffer (plus Brefeldin A) (previously named IC Fixation & Permeabilization Buffer)

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