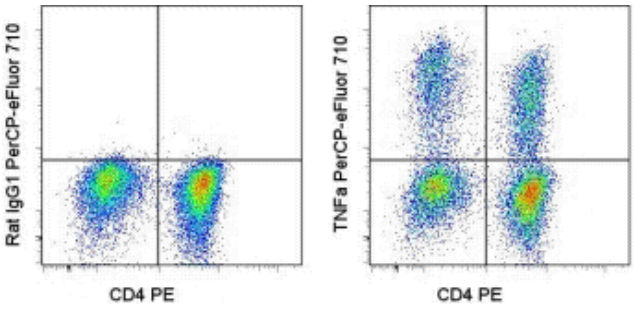
full spectrum cell analysis®
eBioscience®

Anti-Mouse TNF alpha PerCP-eFluor® 710

Catalog Number: 46-7321
Also Known As: Tumor Necrosis Factor alpha
RUO: For Research Use Only



Intracellular staining of Mouse Cytokine Positive Control Cells (cat. 00-4500) with Anti-Mouse CD4 PE (cat. 12-0041) and 0.03 ug of Rat IgG1 K Isotype Control PerCP-eFluor® 710 (cat. 46-4301) (left) or 0.03 ug of Anti-Mouse TNF alpha PerCP-eFluor® 710 (right).

Product Information

Contents: Anti-Mouse TNF alpha PerCP-eFluor® 710
REF **Catalog Number:** 46-7321
Clone: MP6-XT22
Concentration: 0.2 mg/mL
Host/Isotype: Rat 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.
LOT **Batch Code:** Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

Description

The MP6-XT22 antibody reacts with mouse tumor necrosis factor-alpha (TNF alpha), a 17 kDa cytokine produced by monocytes, macrophages, neutrophils, NK cells and CD4(+) T cells. TNF 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.

Applications Reported

This MP6-XT22 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested

This MP6-XT22 antibody has been tested by intracellular staining and flow cytometric analysis of restimulated mouse splenocytes. This can be used at less than or equal to 0.06 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. 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.

PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor® 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

Click here or contact eBioscience Technical Support for more information on eFluor® Organic Dyes including PerCP-eFluor® 710.

References

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Williams RO, Mauri C, et al.Therapeutic actions of cyclosporine and anti-tumor necrosis factor alpha in collagen-induced arthritis and the effect of combination therapy. Arthritis Rheum. 1998. 41(10):1806-12. (IHC frozen, PubMed)

Hunter CA, Litton MJ, et al. Immunocytochemical detection of cytokines in the lymph nodes and brains of mice resistant or susceptible

to toxoplasmic encephalitis. J Infect Dis. 1994. 170(4): 939-45.

Litton MJ, Sander B, et al. Early expression of cytokines in lymph nodes after treatment in vivo with Staphylococcus enterotoxin B. J Immunol Methods 1994. 175(1): 47-58.

Abrams JS, Roncarolo MG, et al. Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and IL-5 in clinical samples. Immunol Rev. 1992. 127: 5-24.

Related Products
00-4500 Mouse Cytokine Positive Control Cells
12-0041 Anti-Mouse CD4 PE (GK1.5)
46-4301 Rat IgG1 K Isotype Control PerCP-eFluor® 710 (PE-Cy5.5 replacement)

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