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Technical Data Sheet

Anti-Mouse TNF-Alpha APC

Catalog Number :84422-80

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

Product Information

Clone: MP6-XT22

Format/Conjugate: APC

Concentration: 0.2 mg/mL

Reactivity: Mouse

Laser: Red (635 -655nm)

Peak Emission: 660nm

Peak Excitation: 650nm

Filter: 660/20

Brightness (1=dim,5=brightest): 5

Isotype: Rat IgG1, kappa

Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

Applications: FC

Description

The MP6-XT22 monoclonal antibody specifically reacts with mouse tumor necrosis factor alpha (TNF-alpha), a 156 amino pro-inflammatory cytokine. It is secreted by various cells including adipocytes, activated monocytes, macrophages, B cells, T cells and fibroblasts. NF-α is cytotoxic to a wide variety of tumor cells and is an essential factor in mediating the immune response against bacterial infections. TNF-α also plays a role in the induction of septic shock, auto immune diseases, rheumatoid arthritis, inflammation, and diabetes. The MP6-XT22 is reported to neutralize the bioactivity of natural or recombinant TNF-alpha and is useful for intracellular immunofluorescent staining.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. For flow cytometric staining, the suggested use of this reagent is ≤0.25 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1.Abrams, J. S. (1995). Immunoenzymetric assay of mouse and human cytokines using NIP-labeled anti-cytokine antibodies.;Current Protocols in Immunology, 6-20.

2. Williams, R. O., Mauri, C., Mason, L. J., Marinova-Mutafchieva, L., Ross, S. E., Feldmann, M., Maini, R. N. (1998). Therapeutic actions of cyclosporine and anti-tumor necrosis factor α in collagen-induced arthritis and the effect of combination therapy.;Arthritis Rheumatism,;41(10), 1806-1812.

3. Litton, M. J., Remington, J. S., Abrams, J. S. (1994). Immunocytochemical detection of cytokines in the lymph nodes and brains of mice resistant or susceptible to toxoplasmic encephalitis.;Journal of Infectious Diseases,;170(4), 939-945.

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