

## Anti-Mouse TNF-Alpha PE-Cyanine7

Catalog Number :84422-77

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

### Product Information

**Clone:** MP6-XT22

**Format/Conjugate:** PE-Cyanine7

**Concentration:** 0.2 mg/mL

**Reactivity:** Mouse

**Laser:** Blue (488nm)

**Peak Emission:** Not Applicable

**Peak Excitation:** Not Applicable

**Filter:** Not Applicable

**Brightness (1=dim,5=brightest):** Not Applicable

**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.