

Anti-Human TNF-Alpha FITC

Catalog Number :84421-50

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

Product Information

Clone: MAb11

Format/Conjugate: FITC

Concentration: 5uL (0.5ug)/test

Reactivity: Human

Laser: Blue (488nm)

Peak Emission: 520nm

Peak Excitation: 494nm

Filter: 530/30

Brightness (1=dim,5=brightest): 3

Isotype: Mouse 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 MAB11 monoclonal antibody specifically reacts with human tumor necrosis factor alpha (TNF-alpha), a 157 amino acid non-glycosylated protein. TNF-alpha is a pleiotropic pro-inflammatory cytokine secreted by various cells including adipocytes, activated monocytes, macrophages, B cells, T cells and fibroblasts. It belongs to the TNF family of ligands and signals through two receptors, TNFR1 and TNFR2. TNF-α is cytotoxic to a wide variety of tumor cells and is an essential factor in mediating the immune response against bacterial infections. TNF-alpha also plays a role in the induction of septic shock, autoimmune diseases, rheumatoid arthritis, inflammation, and diabetes. The MAB11 antibody was generated from recombinant human TNF and is reported to be a neutralizing antibody.

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. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

References

1. Danis, V. A., Franic, G. M., Rathjen, D. A., Brooks, P. M. (1991). Effects of granulocyte-macrophage colony-stimulating factor (GM-CSF), IL-2, interferon-gamma (IFN-γ), tumour necrosis factor-alpha (TNF-α) and IL-6 on the production of immunoreactive IL-1 and TNF-α by human monocytes. *Clinical Experimental Immunology*;85(1), 143-150.
2. Prussin, C., Metcalfe, D. D. (1995). Detection of intracytoplasmic cytokine using flow cytometry and directly conjugated anti-cytokine antibodies. *Journal of immunological methods*;188(1), 117-128.
3. Andersen, H., Rossio, J. L., Coalter, V., Poore, B., Martin, M. P., Carrington, M., Lifson, J. D. (2004). Characterization of rhesus macaque natural

killer activity against a rhesus-derived target cell line at the single-cell level.;Cellular immunology,,231(1), 85-95.