

## Anti-Mouse/Rat TNF-alpha SAFIRE Purified

Catalog Number :84412-25

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

### Product Information

**Clone:** TN3-19

**Format/Conjugate:** SAFIRE Purified

**Concentration:** 1.0 mg/mL

**Reactivity:** Mouse, Rat

**Laser:** Not Applicable

**Peak Emission:** Not Applicable

**Peak Excitation:** Not Applicable

**Filter:** Not Applicable

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

**Isotype:** Armenian Hamster IgG

**Formulation:** Phosphate-buffered aqueous solution, pH7.2.

**Storage:** Product should be kept at 2-8°C.

**Applications:** FA

### Description

The TN3-19 monoclonal antibody reacts with mouse and rat tumor-necrosis (TNF) alpha proteins. It is not cross-reactive with mouse TNF-Beta or human TNF. 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- $\alpha$  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 TN3-19 antibody is reported to be a neutralizing antibody.

### Preparation & Storage

The product should be stored undiluted at 4°C. Do not freeze. The monoclonal antibody was purified utilizing affinitychromatography.

### Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. It is recommended that the reagent be titrated for optimal performance for each application.

### References

1. Williams, R. O., Feldmann, M., Maini, R. N. (1992). Anti-tumor necrosis factor ameliorates joint disease in murine collagen-induced arthritis.; *Proceedings of the National Academy of Sciences*;;89(20), 9784-9788.
2. Leiby, D. A., Fortier, A. H., Crawford, R. M., Schreiber, R. D., Nacy, C. A. (1992). In vivo modulation of the murine immune response to Francisella tularensis LVS by administration of anticytokine antibodies.; *Infection and immunity*;;60(1), 84-89.
3. Sheehan, K. C., Ruddle, N. H., Schreiber, R. D. (1989). Generation and characterization of hamster monoclonal antibodies that neutralize murine tumor necrosis factors.; *The Journal of Immunology*;;142(11), 3884-3893.