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Anti-Mouse Tumor Necrosis Factor alpha (TNF-α) Polyclonal Antibody

Catalog No: **CPT102**

Size: 500 µg

Concentration: 0.5 mg/0.5 mL

Formulation: Rabbit polyclonal immunoglobulins in phosphate buffered saline, pH 7.2. 0.1% sodium azide as a preservative.

Purification: Immunoglobulins were sequentially purified by ammonium sulfate precipitation, anion exchange chromatography, and affinity chromatography on a Sepharose column with immobilized recombinant mouse TNF-alpha.

Specificity: Recognizes both natural and recombinant mouse TNF-alpha. This antibody shows a high degree of cross-reactivity with rat TNF-alpha.

Applications: For use in ELISA format as a capture antibody or in neutralization studies.

Recommended Dilution: Centrifuge vial briefly before opening to bring contents to bottom of vial. A concentration of 1-5 µg/mL is recommended for coating microtiter plates. A general ELISA protocol is available upon request. The optimal antibody concentration should be determined for each specific application.

Storage: Store at 2-8°C for up to one month. For long term use, store in aliquots below -20°C. Avoid repeated freeze/thaw cycles.

References:

1) Morgan, C.D. et al. (1991) An improved colorimetric assay for tumor necrosis factor using WEHI 164 cells cultured on novel microtiter plates. J. Immunol. Methods 145:259-262.
2) Bhat, N.R., et al. (1998) Extracellular signal-regulated kinase and p38 subgroups of mitogen-activated protein kinases regulate inducible nitric oxide synthase and tumor necrosis factor-alpha gene expression in endotoxin-stimulated primary glial cultures. J. Neuroscience 18(5):1633-1641.
3) Roos, A. et al. (1998) Strong expression of CD134 (OX40), a member of the TNF receptor family, in a T helper 2-type cytokine environment. J. Leukoc. Biol. 64(4):503-10.
4) Wada, R. et al. (2000) Microglial activation precedes acute neurogeneration in Sandhoff disease and is suppressed by bone marrow transplantation. Proc. Nat'l. Acad. Sci. 97:19054-19059.
5) Joosten, L.A.B., F.A.J. van de Loo, E. Lubberts, M.M.A. Helsen, M.G. Netea, J.W.M. van der Meer, C.A. Dinarello and W.B. van den Berg (2000) An IFN-gamma independent proinflammatory role of IL-18 in murine streptococcal cell wall arthritis. J. Immunol. 165:6553-6558.

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