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**Antibody to Tumor Necrosis Factor-alpha
MOUSE MONOCLONAL**

Catalog Number: PRP-124ANT
Quantity: 500 micrograms, 1 milligram
Format: Lyophilized
Host: Mouse
Isotype: IgG1
Clone: NYRhTNFa-E2
Immunogen: r.Human TNF-a

Background:

Tumor necrosis factor is a cytokine involved in systemic inflammation and is a member of a group of cytokines that all stimulate the acute phase reaction. TNF is mainly secreted by macrophages. TNF causes apoptotic cell death, cellular proliferation, differentiation, inflammation, tumorigenesis and viral replication, TNF is also involved in lipid metabolism, and coagulation. TNF's primary role is in the regulation of immune cells. Dysregulation and, in particular, overproduction of TNF have been implicated in a variety of human diseases- autoimmune diseases, insulin resistance, and cancer.

Specificity and Preparation:

Mouse anti-human tumor necrosis factor-alpha (TNF-a) is purified over an ion exchange column. Protein concentration is 1 mg/ml in PBS (after reconstitution).

Usage and Storage:

Reported to be effective for direct ELISA, western blot, immunoprecipitation, and intracellular staining. Titer: in direct ELISA, using alkaline phosphatase goat anti-mouse Ig (Jackson Laboratories) 1:10,000 dilution will yield 0.7 O.D within 10 minutes. This antibody will bind very well to protein A in a buffer (PBS) containing high salt concentration (3M NaCl).

Reconstitute with sterile H₂O. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate. Store lyophilized material at 4°C in a dry environment. After reconstitution, if not intended for use within a month, aliquot and store at -20°C. Material is stable for two years lyophilized, one month in solution at 4°C.

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