Rat Anti-TNF-α

Catalog Number: SP-50921 Quantity size: 0.1ml (dilute with pH

7.4 0.01 M PBS or antibody diluent)

Background: Tumor necrosis factor β (TNF β), also known as lymphotoxin, is a pleiotropic cytokine. TNF α , also known as cachectin, is a smaller cytokine that binds to the same receptors producing a vast array of effects similar to those of TNF β . TNF β and TNF α share 30% amino acid homology and have similar biological activities. TNF β is produced by activated lymphocytes, including CD4+ T helper cell type 1 lymphocytes, CD8+ lymphocytes and certain B lymphoblastoid cell lines. TNF α is produced by several different cell types, which include lymphocytes, neutrophils and macrophages. TNF α and TNF β can modulate many immune and inflammatory functions, while having the ability to inhibit tumor growth. Target tumor cells must express TNF receptors 1 and 2 to be killed, with the p55 receptor mediating the cytotoxic response.

Specificity:

- anti- TNF-α is a rat polyclonal antibody unconjugated
- specific for TNF- α of human
- broadly reactive with mammalian species
- epitope mapping near the amino terminus of TNF-αof human, mouse, rat hu, mo, rat, Guinea pig, rabbit, dog to cross reacted
- use for western blotting, elisa, immunoprecipitation and immunohistochemistry
- Protein G affinity chromatogr aphy purification, Purity>95%
- Isotype:IgG
- mol wt: 26kDa

Application:

- Western blotting 1:100-500
- Immunohistochemistry 1:100-500
- ELISA 1:500-1000
- Optimal working dilutions must be determined by the end user.

Storage: Store at-20 $^{\circ}$ C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20 $^{\circ}$ C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody, the antibody is stable for at least six weeks at 2-4 $^{\circ}$ C.

Important Note: This product is only used for research purposes, not for human, therapeutic or diagnostic applications. Please read the product instructions carefully before operation