

Product datasheet for **PP039P1**

LOC103694380 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, FN, WB
Recommended Dilution:	Neutralisation: To yield one-half maximal inhibition [ND50] of the biological activity of Rat TNF-alpha (15.00 ng/ml), a concentration of 0.07-0.10 µg/ml of this antibody is required. Sandwich ELISA: Using 100 µl/well antibody solution, a concentration of 0.5-2.0 µg/ml is required. In conjunction with Biotinylated Rat TNF-alpha (cat. no. PP039B1 / PP039B2) as a detection antibody, it allows the detection of at least 0.2-0.4 ng/well of recombinant Rat TNF-alpha. Western Blot: To detect Rat TNF-alpha by Western Blot analysis this antibody can be used at a concentration of 0.1-0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant Rat TNF-alpha is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Highly pure (>98%) recombinant Rat TNF-alpha
Specificity:	This antibody detects TNF-alpha.
Formulation:	PBS, pH 7.2 State: Aff - Purified State: Lyophilized (sterile filtered) purified Ig fraction
Reconstitution Method:	Centrifuge the vial prior to opening. Restore in sterile water to a concentration of 0.1-1.0 mg/ml.
Purification:	Affinity Chromatography employing immobilized Rat TNF-a matrix
Conjugation:	Unconjugated
Storage:	Store the antibody prior to reconstitution at -20°C. Following reconstitution the antibody can be stored at 2-8°C for one month or at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.



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Gene Name: tumor necrosis factor-like

Database Link: [Entrez Gene 103694380 Rat P16599](#)

Background: TNF-alpha is a pleiotrophic 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, auto immune diseases, rheumatoid arthritis, inflammation, and diabetes.

Synonyms: TNF, TNF-a, TNFA, TNFSF2, Cachectin