

Product datasheet for **PP019P1**

Tumor necrosis factor (TNF-alpha) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: ELISA, FN, IHC, WB

Recommended Dilution: **Neutralization:** To yield one-half maximal inhibition [ND_{50}] of the biological activity of Mouse TNF-alpha (0.5 ng/ml), a concentration of 0.010-0.015 μ g/ml of this antibody is required.

Indirect ELISA: To detect Mouse TNF-alpha by indirect ELISA (using 100 μ l/well antibody solution) a concentration of 0.5-2.0 μ g/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of at least 0.2-0.4 ng/well of recombinant Mouse TNF-alpha.

Sandwich ELISA: To detect Mouse TNF-alpha by Sandwich ELISA (using 100 μ l/well antibody solution) a concentration of 0.5-2.0 μ g/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with a Biotin conjugated antibody (*Cat.-No* PP019B) as a Detection antibody, allows the detection of at least 0.2-0.4 ng/well of recombinant Mouse TNF-alpha.

Western Blot: To detect Mouse TNF-alpha by Western Blot analysis this antibody can be used at a concentration of 0.1-0.2 μ g/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant Mouse TNF-alpha is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.

Immunohistochemistry: This antibody stained colchicine injected mouse brain (hippocampus CA1 region) tissue. The primary antibody was incubated at 1.0 μ g/ml overnight at 4°C. This was followed by a peroxidase conjugated secondary antibody and then a fluorescein Tyramide Signal Amplification (TSA™) reagent. Optimal concentrations and conditions may vary. *Information and photo are courtesy of the Tissue Profiling group, SciLifeLab Stockholm.*

Reactivity: Mouse

Host: Rabbit

Clonality: Polyclonal

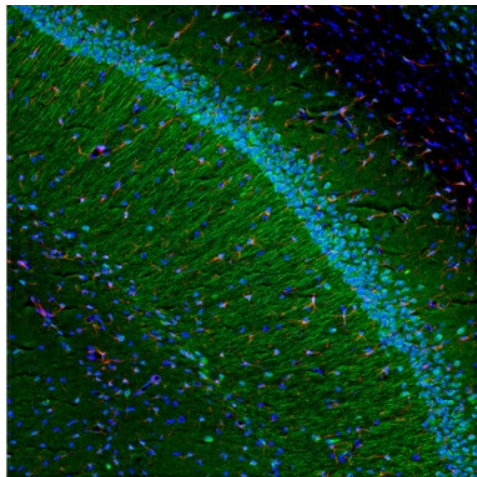
Immunogen: Highly pure (>98%) E.coli derived recombinant Mouse TNF-alpha (*Cat.-No* PA031).

Specificity: Reacts with Mouse TNF-alpha. Other species not tested.



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| Formulation: | PBS, pH 7.2 State: Aff - Purified State: Lyophilized (sterile filtered) purified Ig fraction |
| Reconstitution Method: | Centrifuge vial prior to opening. Restore in sterile water to a concentration of 0.1-1.0 mg/ml. |
| Purification: | Affinity Chromatography employing immobilized MouseTNF-alpha matrix |
| Conjugation: | Unconjugated |
| Storage: | Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: 6 months from despatch. |
| Gene Name: | tumor necrosis factor |
| Database Link: | Entrez Gene 21926 Mouse P06804 |
| Background: | Tumor Necrosis Factor (TNF) is a cytokine whose function is mediated through two distinct cell surface receptors (TNF Receptor I and TNF Receptor II) that are included in the TNF receptor superfamily along with FAS antigen and CD40. TNF receptors I and II are membrane glycoproteins and they are from the family of cell surface molecules including nerve growth factor receptor, Fas/Apo1, CD30, OX40, and 4-1BB, which are characterized by cysteine rich motifs in the extracellular domain. TNF Receptor II (p75, CD120b) is present on most cell types (including monocytes, endothelial cells, Langerhans cells, and macrophages) and is considered to play a role in cell stimulation by TNF alpha. TNF Receptor II molecule is shown to be responsible for stimulation of activated T lymphocytes by TNF alpha. |
| Synonyms: | TNF, TNF-a, TNFA, TNFSF2, Cachectin |

Product images:

colchicine injected mouse brain (hippocampus CA1 region) tissue stained with TNF-alpha Antibody Cat.-No PP019P