

**TNF- $\alpha$  (PN0466) Nb-FC recombinant antibody**

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| <b>Catalog No :</b>          | YA0647                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Reactivity :</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Applications :</b>        | ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Target :</b>              | TNF $\alpha$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Fields :</b>              | >>Antifolate resistance;>>MAPK signaling pathway;>>Cytokine-cytokine receptor interaction;>>Viral protein interaction with cytokine and cytokine receptor;>>NF-kappa B signaling pathway;>>Sphingolipid signaling pathway;>>mTOR signaling pathway;>>Apoptosis;>>Necroptosis;>>TGF-beta signaling pathway;>>Osteoclast differentiation;>>Antigen processing and presentation;>>Toll-like receptor signaling pathway;>>NOD-like receptor signaling pathway;>>RIG-I-like receptor signaling pathway;>>C-type lectin receptor signaling pathway;>>Hematopoietic cell lineage;>>Natural killer cell mediated cytotoxicity;>>IL-17 signaling pathway;>>T cell receptor signaling pathway;>>Fc epsilon RI signaling pathway;>>TNF signaling pathway;>>Adipocytokine signaling pathway;>>Type II diabetes mellitus;>>Insulin resistance;>>Non-alcoholic fatty liver disease;>>AGE-RAGE signaling pathway in diabetic complications;>>Alcoholic liver disease;>>Type I diabetes mellitus;>>Alzheimer disease;>>Amyotrophic lateral sclerosis;>>P |
| <b>Gene Name :</b>           | TNF TNFA TNFSF2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Protein Name :</b>        | Tumor necrosis factor (Cachectin) (TNF-alpha) (Tumor necrosis factor ligand superfamily member 2) (TNF-a) [Cleaved into: Tumor necrosis factor, membrane form (N-terminal fragment) (NTF); Intracellular                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Human Gene Id :</b>       | 7124                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Human Swiss Prot No :</b> | P01375                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Immunogen :</b>           | Purified recombinant Human TNF $\alpha$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Specificity :</b>         | This recombinant monoclonal antibody can detects endogenous levels of TNF $\alpha$ protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Formulation :</b>         | Phosphate-buffered solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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| <b>Source :</b>               | Camel, chimeric fusion of Nanobody (VHH) and mouse IgG1 Fc domain , recombinantly produced from 293F cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Dilution :</b>             | ELISA 1:5000-100000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purification :</b>         | Recombinant Expression and Affinity purified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Concentration :</b>        | Please check the information on the tube                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage Stability :</b>    | -15°C to -25°C/1 year(Avoid freeze / thaw cycles)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Cell Pathway :</b>         | MAPK_ERK_Growth;MAPK_G_Protein;Cytokine-cytokine receptor interaction;Apoptosis_Inhibition;Apoptosis_Mitochondrial;Apoptosis_Overview;TGF-beta;Toll_Like;NOD-like receptor;RIG-I-like receptor;Hematopoiesis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Background :</b>           | This gene encodes a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. This cytokine is mainly secreted by macrophages. It can bind to, and thus functions through its receptors TNFRSF1A/TNFR1 and TNFRSF1B/TNFR2. This cytokine is involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. This cytokine has been implicated in a variety of diseases, including autoimmune diseases, insulin resistance, and cancer. Knockout studies in mice also suggested the neuroprotective function of this cytokine. [provided by RefSeq, Jul 2008],                                                                                                                                                                                                                            |
| <b>Function :</b>             | disease:Cachexia accompanies a variety of diseases, including cancer and infection, and is characterized by general ill health and malnutrition.;disease:Genetic variations in TNF are associated with susceptibility to hepatitis B virus infection (HBV infection) [MIM:610424]. Approximately one third of all cases of cirrhosis and half of all cases of hepatocellular carcinoma can be attributed to chronic HBV infection. HBV infection may result in subclinical or asymptomatic infection, acute self-limited hepatitis, or fulminant hepatitis requiring liver transplantation.;disease:Genetic variations in TNF are associated with susceptibility to psoriatic arthritis [MIM:607507]. Psoriasis is a chronic inflammatory dermatosis that affects approximately 2% of the population. It is characterized by red, scaly skin lesions that are usually found on the scalp, elbows, and knees, and may be associated with |
| <b>Subcellular Location :</b> | Cell membrane ; Single-pass type II membrane protein .; [Tumor necrosis factor, membrane form]: Membrane; Single-pass type II membrane protein.; [Tumor necrosis factor, soluble form]: Secreted .; [C-domain 1]: Secreted.; [C-domain 2]: Secreted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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## Products Images