

Anti-TNF alpha Antibody Picoband™

Catalog Number: A00002-3

About TNF

TNF (Tumor Necrosis Factor alpha) 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.

Overview

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| Product Name | Anti-TNF alpha Antibody Picoband™ |
| Reactive Species | Human |
| Description | Boster Bio Anti-TNF alpha Antibody Picoband™ catalog # A00002-3. Tested in ELISA, WB applications. This antibody reacts with Human. |
| Application | ELISA, WB |
| Clonality | Polyclonal IC-16 |
| Formulation | Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ . |
| Storage Instructions | Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles. |
| Host | Rabbit |
| Uniprot ID | P01375 |

Technical Details

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| Immunogen | E. coli-derived human TNF alpha recombinant protein (Position: V77-L233). |
| Predicted Reactive Species | Chicken |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot. |
| Cross Reactivity | No cross-reactivity with other proteins. |
| Isotype | Rabbit IgG |
| Form | Lyophilized |
| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. |

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| Purification | Immunogen affinity purified. |
| Suggested Dilutions | <p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml</p> <p>ELISA (Cap), 1-5ug/ml</p> |

Anti-TNF alpha Antibody Picoband™ (A00002-3) Images

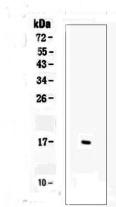


Figure 1. Western blot analysis of TNF alpha using anti-TNF alpha antibody (A00002-3). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. Lane 1: recombinant human TNF alpha protein 1ng. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-TNF alpha antigen affinity purified polyclonal antibody (Catalog # A00002-3) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for TNF alpha at approximately 17KD. The expected band size for TNF alpha is at 17KD.

36 Publications Citing This Product

1. PubMed ID: 22432006, Liu Hp, Gao Zh, Cui Sx, Sun Df, Wang Y, Zhao Cr, Lou Hx, Qu Xj. Plos One. 2012;7(3):E33243. Doi: 10.1371/Journal.Pone.0033243. Epub 2012 Mar 14. Inhibition Of Intestinal Adenoma Formation In Apc(Min/+) Mice By Riccardin D, A Natural Product Derive...
2. PubMed ID: 25317156, Neuroprotective effect of pretreatment with ganoderma lucidum in cerebral ischemia/reperfusion injury in rat hippocampus
3. PubMed ID: 26191204, Hydrogen sulfide accelerates wound healing in diabetic rats

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