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anti-TNF alpha antibody (AA 80-235)

1 Image

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Publications



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| Quantity: | 100 μg | |
|-----------------------------|--|--|
| Target: | TNF alpha | |
| Binding Specificity: | AA 80-235 | |
| Reactivity: | Mouse | |
| Host: | Rabbit | |
| Clonality: | Polyclonal | |
| Conjugate: | This TNF alpha antibody is un-conjugated | |
| Application: | Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) | |
| Product Details | | |
| Purpose: | Rabbit IgG polyclonal antibody for Tumor necrosis factor(TNF) detection. Tested with WB, IHC-P, ELISA in Mouse. | |
| Immunogen: | E. coli-derived mouse TNF alpha recombinant protein(Position: L80-L235). | |
| Isotype: | IgG | |
| Cross-Reactivity (Details): | No cross reactivity with other proteins. | |
| Characteristics: | Rabbit IgG polyclonal antibody for Tumor necrosis factor(TNF) detection. Tested with WB, IHC-P, ELISA in Mouse. Gene Name: tumor necrosis factor Protein Name: tumor necrosis factor | |
| Purification: | Immunogen affinity purified. | |

Target Details

| Target: | TNF alpha | | |
|---------------------|--|--|--|
| Alternative Name: | TNF (TNF alpha Products) | | |
| Background: | TNF alpha(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/TNFBR. 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. | | |
| | Synonyms: APC1 antibody APC1 protein antibody Cachectin antibody DIF | | |
| | antibody Differentiation inducing factor antibody Macrophage cytotoxic factor antibody MCF | | |
| | antibody Necrosin antibody TNF a antibody TNF alpha antibody TNF antibody TNF Macrophage | | |
| | Derived antibody TNF Monocyte Derived antibody TNF Superfamily Member 2 antibody TNF | | |
| | superfamily, member 2 antibody TNF, macrophage derived antibody TNF, monocyte derived | | |
| | antibody TNF-a antibody TNF-alpha antibody TNFA antibody TNFA_HUMAN antibody TNFSF2 | | |
| | antibody Tumor necrosis factor alpha antibody Tumor necrosis factor antibody Tumor necrosis | | |
| | factor ligand superfamily member 2 antibody Tumor Necrosis Factor Precursor | | |
| | antibody Tumor Necrosis Factor, Membrane Form antibody Tumor necrosis factor, soluble | | |
| | form antibody Tumour Necrosis Factor Alpha antibody | | |
| UniProt: | P06804 | | |
| Pathways: | NF-kappaB Signaling, Apoptosis, Caspase Cascade in Apoptosis, TLR Signaling, Cellular | | |
| | Response to Molecule of Bacterial Origin, Regulation of Leukocyte Mediated Immunity, Positive | | |
| | Regulation of Immune Effector Process, Production of Molecular Mediator of Immune | | |
| | Response, Positive Regulation of Endopeptidase Activity, Hepatitis C, Protein targeting to | | |
| | Nucleus, Inflammasome | | |
| Application Details | | | |
| Application Notes: | WB: Concentration: 0.1-0.5 μg/mL, Species: Mouse | | |
| | IHC-P: Concentration: 0.5-1 μg/mL, Species: Mouse, Epitope Retrieval by Heat: Boiling the | | |
| | paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of | | |
| | formalin/paraffin sections. | | |
| | ELISA: Concentration: 0.1-0.5 µg/mL, Species: Mouse | | |

| | Notes: Other applications have not been tested. Optimal dilutions should be determined by end users. | |
|--------------------|---|--|
| Comment: | Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P). | |
| Restrictions: | For Research Use only | |
| Handling | | |
| Format: | Lyophilized | |
| Reconstitution: | Add 0.2 mL of distilled water will yield a concentration of 500 μg/mL. | |
| Concentration: | 500 μg/mL | |
| Buffer: | Each vial contains 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide. | |
| Preservative: | Sodium azide | |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. | |
| Handling Advice: | Avoid repeated freezing and thawing. | |
| Storage: | 4 °C/-20 °C | |
| Storage Comment: | At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing. | |
| Expiry Date: | 12 months | |
| Publications | | |
| Product cited in: | Zhang, Wang, Yue, Liu, Liu: "Construction of a CXCL12-KDEL fusion gene to inhibit head and neck squamous cell carcinoma metastasis by intracellular sequestration of CXCR4." in: BioMed research international , Vol. 2015, pp. 195828, (2015) (PubMed). | |
| | Zhu, Sun, Tan, Xu, Dai, Wang, Fan, Zhou: "Tacrolimus promotes hepatocellular carcinoma and enhances CXCR4/SDF-1α expression in vivo." in: Molecular medicine reports , Vol. 10, Issue 2, pp. 585-92, (2015) (PubMed). | |

Liu, Wang, Wang, Wang: "Anticancer effects of chemokine receptor 4(CXCR4) gene silenced by CXCR4-siRNA in nude mice model of ovarian cancer." in: **Cell biochemistry and biophysics**, Vol. 70, Issue 3, pp. 1893-900, (2014) (PubMed).

Li, Chen, Yuan, Zhou, He, Zu, Qi: "CXCR4 expression in bladder transitional cell carcinoma and its relationship with clinicopathological features." in: **Urologia internationalis**, Vol. 92, Issue 2, pp. 157-63, (2014) (PubMed).

Tan, Chang, Liu, Tang: "Silencing of CXCR4 inhibits tumor cell proliferation and neural invasion in human hilar cholangiocarcinoma." in: **Gut and liver**, Vol. 8, Issue 2, pp. 196-204, (2014) (PubMed).

There are more publications referencing this product on: Product page

Images



Western Blotting

Image 1. Western blot analysis of TNF alpha using anti-TNF alpha antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V(Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane: Recombinant TNFα Mouse Protein 0.5ng, After Electrophoresis, transferred proteins were to 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 #) at 0.5 µg/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.