

Anti-TNF alpha Antibody

ER1919-22



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|----------------------------|---|
| Product Type: | Rabbit polyclonal IgG, primary antibodies |
| Species reactivity: | Human, Mouse |
| Applications: | WB |
| Molecular Wt: | 17/26 kDa |

Description: Cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. It is mainly secreted by macrophages and can induce cell death of certain tumor cell lines. It is potent pyrogen causing fever by direct action or by stimulation of interleukin-1 secretion and is implicated in the induction of cachexia, Under certain conditions it can stimulate cell proliferation and induce cell differentiation. Impairs regulatory T-cells (Treg) function in individuals with rheumatoid arthritis via FOXP3 dephosphorylation. Upregulates the expression of protein phosphatase 1 (PP1), which dephosphorylates the key 'Ser-418' residue of FOXP3, thereby inactivating FOXP3 and rendering Treg cells functionally defective. Key mediator of cell death in the anticancer action of BCG-stimulated neutrophils in combination with DIABLO/SMAC mimetic in the RT4v6 bladder cancer cell line. Induces insulin resistance in adipocytes via inhibition of insulin-induced IRS1 tyrosine phosphorylation and insulin-induced glucose uptake. Induces GKAP42 protein degradation in adipocytes which is partially responsible for TNF-induced insulin resistance.

Immunogen: KLH conjugated synthetic peptide derived from human TNF-alpha:181-233/233 <Extracellular>

Positive control: Liver (mouse) Lysate, Diseased lung(mouse).

Subcellular location: Cell membrane, Secreted.

Database links: SwissProt: P01375 Human | P06804 Mouse

Recommended Dilutions:
WB 1:500-2000: 1:5000-10000

Storage Buffer: 1*TBS (pH7.4), 1%BSA, 50%Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

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Technical:0086-571-89986345

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Images

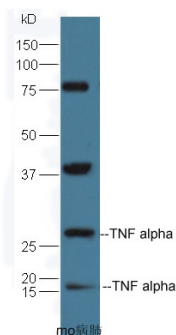


Fig1: Sample: Diseased lung(mouse) at 30ug;
 Primary: Anti-TNF alpha (ER1919-22) at 1:300 dilution;
 Secondary: HRP conjugated Goat-Anti-Rabbit IgG(bse-0295G-HRP) at 1: 5000 dilution;
 Predicted band size :17/28 kD
 Observed band size :17/28 kD

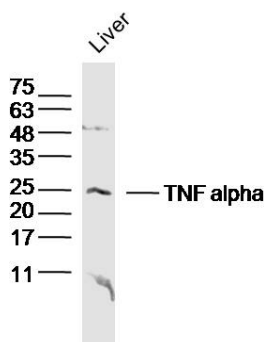


Fig2: Sample: Liver (mouse) Lysate at 40 ug
 Primary: Anti-TNF alpha(ER1919-22)at 1/300 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 17/26kD
 Observed band size: 25 kD

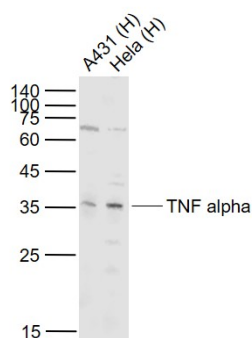


Fig3: Sample:
 Lane 1: A431 (Human) Cell Lysate at 30 ug
 Lane 2: HeLa (Human) Cell Lysate at 30 ug
 Primary:
 Anti-TNF alpha (ER1919-22) at 1/1000 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 36/17/26 kD
 Observed band size: 36 kD

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Friedmann E. et al. SPPL2a and SPPL2b promote intramembrane proteolysis of TNFalpha in activated dendritic cells to trigger IL-12 production. *Nat. Cell Biol.* 8:843-848(2006)
2. Nie H. et al. Phosphorylation of FOXP3 controls regulatory T cell function and is inhibited by TNF-alpha in rheumatoid arthritis. *Nat. Med.* 19:322-328(2013)

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