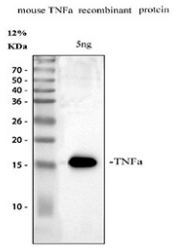
Tnf alpha Antibody / Tnfa (RQ5771)

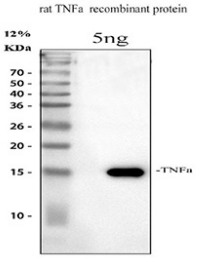
Catalog No.	Formulation	Size
RQ5771	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P06804
Applications	Western blot: 0.5-1ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This Tnf alpha antibody is available for research use only.



Western blot testing of recombinant mouse Tnf alpha partial protein with Tnf alpha antibody.



Western blot testing of recombinant rat Tnf alpha partial protein with Tnf alpha antibody.

Description

Tumor necrosis factor alpha, commonly referred to as Tnf alpha, is a key pro-inflammatory cytokine involved in immune system regulation, cell apoptosis, and the inflammatory response. It is predominantly produced by activated macrophages, though many other immune and non-immune cell types can also express Tnf alpha under stress or pathological conditions. The signaling cascade initiated by Tnf alpha plays a central role in host defense, but its dysregulation is associated with chronic inflammation, autoimmune diseases, and cancer.

The Tnf alpha gene gives rise to multiple isoforms through alternative splicing. These isoforms may differ in their cellular localization, stability, and receptor binding capabilities. The best-characterized forms are the transmembrane precursor and the cleaved soluble cytokine, both of which are biologically active and capable of triggering downstream signaling through Tnf receptors.

A high-quality Tnf alpha antibody is essential for studying cytokine biology and immune-mediated diseases. Researchers frequently use a Tnf alpha antibody for detecting the protein in applications such as western blot, immunohistochemistry, flow cytometry, and ELISA. NSJ Bioreagents provides a validated Tnf alpha antibody designed to ensure sensitivity and specificity across these platforms, enabling researchers to explore both baseline expression and dynamic regulation of Tnf alpha under various experimental conditions.

Application Notes

Optimal dilution of the Tnf alpha antibody should be determined by the researcher.

Immunogen

Recombinant mouse protein (amino acids D89-E185) was used as the immunogen for the Tnf alpha antibody.

Storage

After reconstitution, the Tnf alpha antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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