

Datasheet for 110-401-321S

TNF alpha Antibody

Overview

Description:	Anti-TNF α (RABBIT) Antibody - 110-401-321S
Item No.:	110-401-321S
Size:	25 μ L
Applications:	WB
Reactivity:	Mouse
Host Species:	Rabbit

Product Details

Background:	TNF alpha Antibody detects TNF-a protein. TNF-a is a 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 a 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. Anti-TNF-alpha Antibody is ideal for investigators involved in Cell Signaling, Immunology and Signal Transduction research.
Synonyms:	rabbit anti-Mouse TNF alpha Antibody, APC1 antibody, Cachectin antibody, DIF antibody, Differentiation inducing factor antibody, Macrophage cytotoxic factor antibody, MCF antibody, Necrosin antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	Tnf
Reactivity:	Mouse
Immunogen Type:	Recombinant Protein
Immunogen:	The whole rabbit serum was prepared by repeated immunizations with recombinant mouse TNF α produced in E.coli.

Purity/Specificity: This antiserum has been heated to 56°C for 30 minutes. The antiserum is directed against mature 17,000 MW mouse TNF α and is useful in determining its presence in various assays. The antibody does not recognize mouse TNF β (lymphotoxin).

Relevant Links:

- [NCBI - P06804.2](#)
- [UniProtKB - P06804](#)
- [GeneID - 21926](#)

Application Details

Tested Applications: WB

Application Note: This antiserum against Mouse TNF α has been tested for use in immunoblotting. This antibody is suitable for use in neutralizations, ELISA, radioimmunoassay, immunoprecipitation, and immunohistochemistry. Reactivity in other immunoassays is unknown. It recognizes the 17,000 MW TNF α . This antiserum will recognize the cell-bound precursor of TNF α as a 26,000 protein in immunoblots, particularly in denatured samples. This antibody is also useful for neutralization of mouse activity in bioassays. It does not neutralize the biological activity of lymphotoxin. For neutralization, it is recommended to incubate the sample with a 1:200 dilution of the antibody for at least 4 hours before being tested. A control of similarly diluted normal rabbit IgG is recommended.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:1,000 - 1:5,000

IHC: 1:100 - 1:500

WB: 1:500 - 1:2,000

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 85 mg/ml by Refractometry

Buffer: None

Preservative: None

Stabilizer: None

Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.

Expiration: Expiration date is one (1) year from date of receipt.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.