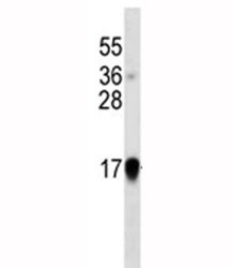
Interferon-alpha Antibody 278CT1 / Type I Interferon Antibody [clone 278CT1] (F40272)

Catalog No.	Formulation	Size
F40272-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F40272-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, k
Clone Name	278CT1
Purity	Purified
UniProt	P01562
Applications	Western blot: 1:100
Limitations	This Interferon-alpha Antibody 278CT1 / Type I Interferon Antibody is available for research use only.



Interferon-alpha Antibody 278CT1 Detection of Recombinant Human Interferon Alpha WB. Western blot analysis of recombinant human interferon alpha using Interferon-alpha Antibody, clone 278CT1. A prominent immunoreactive band is detected at approximately 20 kDa, within the expected molecular weight range for human interferon alpha. The discrete target signal and limited additional background support detection of Type I Interferon under the tested conditions.

Description

Interferon-alpha Antibody 278CT1 / Type I Interferon Antibody recognizes interferon alpha, a group of closely related cytokines belonging to the type I interferon family. Interferon alpha proteins are important mediators of innate immune defense and are produced in response to viral infection and other immune stimuli. Like other type I interferons, interferon

alpha signals through the heterodimeric IFNAR1 and IFNAR2 receptor complex, activating intracellular pathways that regulate antiviral defense, immune activity, and cellular responses to infection.

Interferon alpha signaling primarily activates the JAK-STAT pathway, leading to formation of transcriptional complexes that induce a broad collection of interferon-stimulated genes. The proteins encoded by these genes participate in mechanisms that restrict viral replication, alter cellular metabolism, regulate protein synthesis, and modify immune-cell activity. Interferon alpha also influences antigen presentation, natural killer cell function, dendritic cell activity, and communication between innate and adaptive immune responses.

The human interferon alpha family contains multiple closely related proteins encoded by distinct genes. Although these family members share substantial sequence and functional similarity, individual interferon alpha subtypes can differ in receptor interactions, biological potency, expression patterns, and cellular effects. Type I Interferon biology is therefore investigated across virology, immunology, inflammatory signaling, host defense, and cancer research. Reagents recognizing interferon alpha can support studies examining this broader cytokine system and its role in coordinating immune responses.

Clone 278CT1 is a mouse monoclonal antibody generated using recombinant human interferon alpha protein as the immunogen. NSJ Bioreagents offers this Interferon-alpha Antibody for researchers investigating interferon expression, innate immunity, and type I interferon biology. An Interferon-alpha Antibody provides a clone-defined reagent for studying this important family of immunoregulatory cytokines and their relationship to antiviral and innate immune responses.

Explore our Innate Immunity Antibodies page for additional reagents targeting cytokines, receptors, and signaling proteins involved in innate immune defense and antiviral responses.

Application Notes

Titration of the Interferon-alpha Antibody 278CT1 / Type I Interferon Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This Interferon-alpha Antibody 278CT1 was produced from a mouse immunized with IFNA1 recombinant protein.

Storage

Aliquot the Interferon-alpha Antibody 278CT1 and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

Interferon alpha antibody, Interferon-alpha antibody, IFN alpha antibody, IFN-alpha antibody, Type I interferon antibody

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