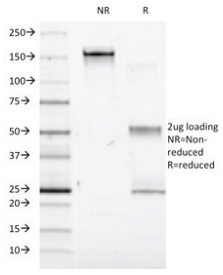
IFNA1 Antibody 2-48 / Interferon Alpha-1 Protein Antibody [clone 2-48] (V7854)

Catalog No.	Formulation	Size
V7854-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7854-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7854SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	2-48
Purity	Protein G affinity chromatography
UniProt	P01562
Localization	Cytoplasmic, extracellular (secreted)
Applications	Flow cytometry: 1-2ug/10^6 cells in 0.1ml Western blot: 1-2ug/ml Immunofluorescence: 1-2ug/ml
Limitations	This IFNA1 Antibody 2-48 / Interferon Alpha-1 Protein Antibody is available for research use only.



Purified IFNA1 Antibody 2-48 SDS-PAGE. SDS-PAGE analysis of purified, BSA-free IFNA1 Antibody, clone 2-48, with 2 ug loaded under non-reducing (NR) and reducing (R) conditions. Under non-reducing conditions, the intact antibody migrates predominantly near 150 kDa. Under reducing conditions, bands corresponding to the antibody heavy and light chains are visible at approximately 50 kDa and 25 kDa, respectively. The observed banding pattern supports the integrity and purity of the monoclonal Interferon Alpha-1 Protein Antibody preparation.

Description

IFNA1 Antibody 2-48 / Interferon Alpha-1 Protein Antibody recognizes interferon alpha 1 (IFNA1), a member of the type I interferon family involved in antiviral defense and immune regulation. IFNA1 signals through the shared type I interferon receptor complex composed of IFNAR1 and IFNAR2. Activation of this receptor initiates JAK-STAT signaling and expression of interferon-stimulated genes that contribute to antiviral activity, immune-cell regulation, and cellular responses to infection.

Interferon alpha proteins are produced in response to viral infection and other immune stimuli and participate in communication between innate and adaptive immune systems. IFNA1 can influence antiviral defense, antigen presentation, natural killer cell activity, dendritic cell function, and inflammatory signaling. These biological activities make the Interferon Alpha-1 Protein relevant to studies of host defense, cytokine signaling, immune regulation, and cancer biology.

The human interferon alpha family contains multiple proteins with substantial amino acid sequence similarity. Despite this homology, individual subtypes are encoded by separate genes and can exhibit differences in expression, receptor interactions, and biological activity. Distinguishing IFNA1 from closely related family members such as IFNA2 can therefore be important when investigating subtype-specific interferon biology. Antibodies with documented subtype selectivity provide researchers with tools for examining individual members of this closely related cytokine family.

Clone 2-48 is a mouse monoclonal antibody generated against human interferon alpha 1 and recognizes IFNA1 without cross-reactivity to interferon alpha 2. NSJ Bioreagents offers this IFNA1 Antibody for researchers investigating interferon alpha 1 expression, cytokine biology, and type I interferon signaling. An IFNA1 Antibody provides a clone-defined reagent for studying Interferon Alpha-1 Protein independently of the closely related IFNA2 subtype.

For an alternative monoclonal clone with documented specificity for IFNA1 without cross-reactivity to IFNA2, see our Interferon Alpha 1 Antibody IFNA/6689 / IFNA1 Antibody page.

Application Notes

Optimal dilution of the IFNA1 Antibody 2-48 / Interferon Alpha-1 Protein Antibody should be determined by the researcher.

Immunogen

Purified recombinant human protein was used as the immunogen for the IFNA1 Antibody 2-48.

Storage

Store the IFNA1 Antibody 2-48 at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

IFNA1 antibody, Interferon alpha 1 antibody, Interferon alpha-1 antibody, Interferon alpha-1 protein antibody, IFN alpha 1 antibody, IFN-alpha 1 antibody

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