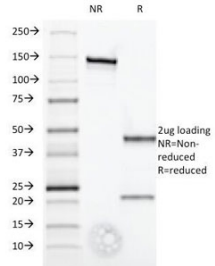
Interferon Alpha-1 Antibody 2-52 / IFNA1 Protein Antibody [clone 2-52] (V2611)

Catalog No.	Formulation	Size
V2611-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2611-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2611SAF-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	2-52
Purity	Protein G affinity chromatography
UniProt	P01562
Localization	Cytoplasmic, extracellular (secreted)
Applications	ELISA (order the BSA-free format for coating)
Limitations	This Interferon Alpha-1 Antibody 2-52 / IFNA1 Protein Antibody is available for research use only.



Purified Interferon Alpha-1 Antibody 2-52 SDS-PAGE. SDS-PAGE analysis of purified, BSA-free Interferon Alpha-1 Antibody, clone 2-52, with 2 ug loaded under non-reducing (NR) and reducing (R) conditions. Under non-reducing conditions, the intact antibody migrates predominantly near 140-150 kDa. Under reducing conditions, bands corresponding to the antibody heavy and light chains are visible at approximately 45-50 kDa and 20-25 kDa, respectively. The observed banding pattern supports the integrity and purity of the monoclonal IFNA1 Protein Antibody preparation.

Description

Interferon Alpha-1 Antibody 2-52 / IFNA1 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 heterodimeric type I interferon receptor composed of IFNAR1 and IFNAR2. Receptor engagement activates JAK-STAT signaling and induces expression of interferon-stimulated genes that contribute to antiviral activity, immune-cell regulation, and cellular responses to infection.

Interferon alpha proteins are produced following viral infection and other immune stimuli and function as important mediators between innate and adaptive immune responses. IFNA1 can influence antiviral defense, antigen presentation, natural killer cell activity, dendritic cell function, and inflammatory signaling. These activities make IFNA1 Protein relevant to investigations of host defense, cytokine signaling, immune regulation, and the interactions between interferon pathways and disease biology.

The human interferon alpha family contains multiple closely related proteins encoded by distinct genes. Their substantial sequence similarity can make differentiation among individual family members challenging, even though interferon alpha subtypes can differ in expression and biological activity. Distinguishing IFNA1 from closely related IFNA2 is therefore useful when investigating subtype-specific interferon biology rather than the broader interferon alpha response.

Clone 2-52 is a mouse monoclonal antibody recognizing human IFNA1 without cross-reactivity to interferon alpha 2. NSJ Bioreagents offers this Interferon Alpha-1 Antibody for researchers investigating IFNA1 expression, cytokine biology, and type I interferon signaling. An Interferon Alpha-1 Antibody provides a clone-defined reagent for studying IFNA1 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 Interferon Alpha-1 Antibody 2-52 / IFNA1 Protein Antibody should be determined by the researcher.

Immunogen

Purified recombinant human protein was used as the immunogen for the Interferon Alpha-1 Antibody 2-52.

Storage

Store the Interferon Alpha-1 Antibody 2-52 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, IFNA1 protein antibody, IFN alpha 1 antibody, IFN-alpha 1 antibody

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