

Alternate Names	IFNA-R1, IFNAR, IFNaR, IFNAR1/R2, interferon- α/β receptor 1
Isotype	IgG1
Conjugate	Unconjugated
Background	Human interferon-alpha/beta receptor subunit 1 (IFNaR1) is a subunit of the interferon-alpha/beta receptor (IFNaR1/R2) heterodimer cell surface receptor complex. IFNaR1/R2 is a Type 1 Interferon Receptor, primarily located on the cell plasma membrane and is composed of two subunits IFNaR1 and IFNaR2. IFNaR1/R2 recognizes type I interferon (IFN) cytokines such as IFN- α , IFN- β and others. Upon binding to type I IFNs, IFNaR1/R2 activates the JAK-STAT, MAPK, PI3K, and Akt signaling pathways. As Type 1 interferon signaling plays important roles in immune responses, dysregulation of IFNaR1/R2 activated pathways has been associated with various diseases, such as neurodegenerative diseases, autoimmune disorders and cancer. IFNaR1/R2 is an emerging therapeutic target for various types of diseases involving modulation of Type I interferon signaling.

Product Details

Specificity	Human
Antibody Type	Monoclonal antibody
Host Species	Mouse
Immunogen	IFNaR1 N-terminus, the exact sequence of the immunogen is proprietary.; UniProt # P17181
Formulation / Storage buffer	Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4 with 10% trehalose as a protectant
Reconstitution	For best performance, we strongly recommend you reconstitute the lyophilized product with deionized water to a stock solution of 500 μg/mL. Solubilize for 20 minutes at room temperature with occasional gentle mixing. Avoid shaking or vortexing.



Anti-Human IFN alpha-R1 Monoclonal Antibody

Product Code: CABh-24025.1

Clone: 8E7-G9

For Research Use Only (RUO)

For 25µg product size:

Reconstitute with 50 µL sterile deionized water.

For 100µg product size:

Reconstitute with 200 µL sterile deionized water.

Shipping

Frozen Ice Packs

Purification

Affinity Enrichment

Stability & Storage

On receipt, store at -20 C or lower for long term storage.

This product is stable at:

-20 to -70 C for 12 months from date of receipt in lyophilized state.

-70 C for 3 months after reconstitution under sterile conditions.

Avoid repeated freeze-thaw cycles

Verified Application

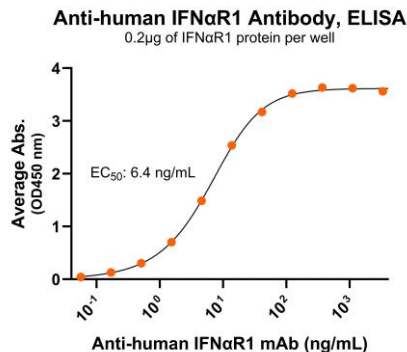
ELISA

Recommended Usage

ELISA: starting concentration 1 µg/mL

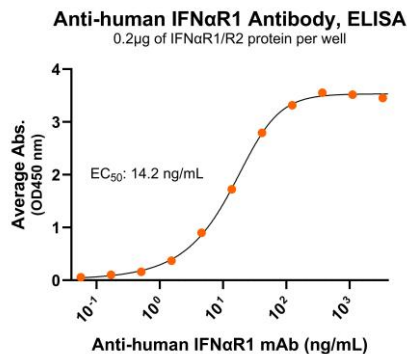
Bioactive Data, Detection of Antigen by:

ELISA



Immobilized human IFN α R1 monomer at 2 μ g/mL (100 μ L/well) can bind mouse Anti-Human IFN α R1 Monoclonal Antibody (Cat. No. CABh-24025.1) with half maximal effective concentration (EC₅₀) range of 3.2-12.8 ng/mL (QC tested).

ELISA



Immobilized human IFN α R1/R2 heterodimer (Cat. No. CSP-24025-A1B1) at 2 μ g/mL (100 μ L/well) can bind mouse Anti-Human IFN α R1 Monoclonal Antibody (Cat. No. CABh-24025.1) with half maximal effective concentration (EC₅₀) range of 7.1-28.4 ng/mL (QC tested).

Antigen Details

Structure	IFN α R1 contains an N-terminal ligand binding domain containing four fibronectin type II-like subdomains, a transmembrane domain, and a cytoplasmic domain.
Function	Activates the JAK-STAT, MAPK, PI3K, and Akt signaling pathways
Ligand / Receptor	Type I IFNs
Cell Type	Nearly ubiquitous expression on all cell types but enhanced expression on peripheral blood B cells and monocytes
Molecular Family	cytokine receptor
Gene ID	P17181