

Alternate Names	IFNAR1, IFNAR2, IFNAR, IFNaR, IFNA-R1/R2, interferon-Alpha/Beta Receptor, interferon- α/β receptor
Isotype	IgG1
Conjugate	Unconjugated
Background	Human interferon-alpha/beta receptor (IFNaR, IFNaR1/R2) is a Type 1 Interferon Receptor, primarily located on the cell plasma membrane. IFNaR1/R2 is a heterodimeric cell surface receptor complex 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	Mouse monoclonal
Host Species	Mouse
Immunogen	IFNaR1 and IFNaR2 N-terminus, the exact sequence of the immunogen is proprietary.; UniProt # P17181 for IFNaR1; P48551 for IFNaR2
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 μ g/mL. Solubilize for 20 minutes at room temperature with occasional gentle mixing. Avoid shaking or vortexing. For 25 μ g product size: Reconstitute with 50 μ L sterile deionized water. For 100 μ g product size:



Anti-Human IFN alpha-R1/R2 Monoclonal Antibody

Product Code: CABh-24025

Clone: 4H10-G12

For Research Use Only (RUO)

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

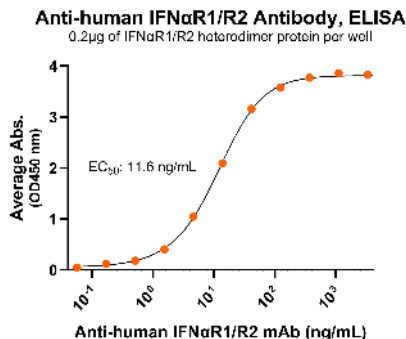
ELISA

Recommended Usage

ELISA: starting concentration 1 µg/mL

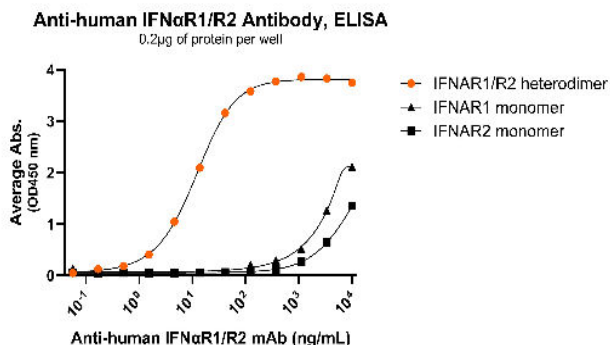
Bioactive Data, Detection of Antigen by:

ELISA



Immobilized human IFN α R1/R2 heterodimer (Cat. No. CSP-24025-A1B1) at 2 μ g/mL (100 μ L/well) can bind mouse Anti-Human IFN α R1/R2 Monoclonal Antibody (Cat. No. CABh-24025) with half maximal effective concentration (EC50) range of 5.8-23.2 ng/mL (QC tested).

ELISA



Anti-Human IFN α R1/R2 Monoclonal Antibody (Cat. No. CABh-24025) binds specifically to immobilized human IFN α R1/R2 heterodimer (Cat. No. CSP-24025-A1B1) at 2 μ g/mL (100 μ L/well) with half maximal effective concentration (EC50) range of 5.8-23.2 ng/mL (QC tested) compared to binding to either IFN α R1 or IFN α R2 monomer.

Antigen Details

Structure	Each subunit contains an N-terminal ligand binding domain containing two (IFN α R2) or four (IFN α R1) 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; P48551