Anti-Human IFN alpha-R2 Monoclonal Antibody
Product Code: CABh-24025.2
Clone: 8B4-F12
For Research Use Only (RUO)

Alternate Names	IFNA-R2, IFNAR, IFNaR, IFNAR1/R2, interferon-α/β receptor 2
Isotype	IgG2b
Conjugate	Unconjugated
Background	Human interferon-alpha/beta receptor subunit 2 (IFNαR2) is a subunit of the interferon-alpha/beta receptor (IFNαR1/R2) heterodimer cell surface receptor complex. IFNαR1/R2 is a Type 1 Interferon Receptor, primarily located on the cell plasma membrane and is composed of two subunits IFNαR1 and IFNαR2. IFNαR1/R2 recognizes type I interferon (IFN) cytokines such as IFN-α, IFN-β and others. Upon binding to type I IFNs, IFNαR1/R2 activates the JAK-STAT, MAPK, PI3K, and Akt signaling pathways. As Type 1 interferon signaling plays important roles in immune responses, dysregulation of IFNαR1/R2 activated pathways has been associated with various diseases, such as neurodegenerative diseases, autoimmune disorders and cancer. IFNαR1/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	IFNαR2 N-terminus, the exact sequence of the immunogen is proprietary.; UniProt # P48551
Formulation / Storage buffer	Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4 with 10% trehalose as protectant

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Reconstitution	For best performance, we strongly recommend you reconsitute 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. 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	-20'C
Verified Application	ELISA
Recommended Usage	ELISA: starting concentration 1 µg/mL

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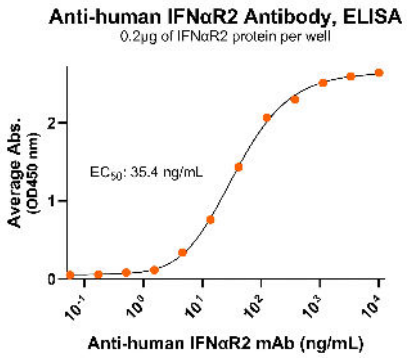
Bioactive Data, Detection of Antigen by:

ELISA



Immobilized human IFNαR2 monomer at 2 μg/mL (100 μL/well) can bind mouse Anti-Human IFNαR2 Monoclonal Antibody (Cat. No. CABh-24025.2) with half maximal effective concentration (EC50) range of 17.7-70.8 ng/mL (QC tested).

Antigen Details

Structure	IFNαR2 contains an N-terminal ligand binding domain containing two 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	P48551