

For Research Use Only

# IFN-alpha 4/IFNA4 Recombinant monoclonal antibody

Catalog Number:87105-1-RR



## Basic Information

<b>Catalog Number:</b> 87105-1-RR	<b>GenBank Accession Number:</b> BC113642	<b>Purification Method:</b> Protein A purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 3441	<b>CloneNo.:</b> 250992G9
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P05014	<b>Recommended Dilutions:</b> WB: 1:1000-1:4000
<b>Immunogen Catalog Number:</b> EG4962	<b>Full Name:</b> interferon, alpha 4	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : Transfected with Human IFNA4 CHO cells, Recombinant protein
<b>Species Specificity:</b> human	

## Background Information

IFN-alpha 4 (IFN- $\alpha$  4 or IFNA4) belongs to the type I interferon family, a group of cytokines primarily produced in response to viral infections. As a key player in the innate immune response, IFN- $\alpha$  4 provides the body's first line of defense against pathogens by inducing an antiviral state in neighboring cells. Produced primarily by macrophages, IFN- $\alpha$  4 exerts its antiviral effects by binding to the interferon alpha receptor (IFNAR) on cell surfaces, thereby activating downstream immune signaling pathways. This binding triggers the expression of antiviral proteins, such as a protein kinase and an oligoadenylate synthetase, which inhibit viral RNA replication and enhance natural killer cell cytotoxicity against viruses.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

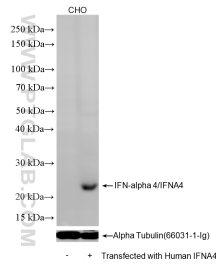
T: 4006900926

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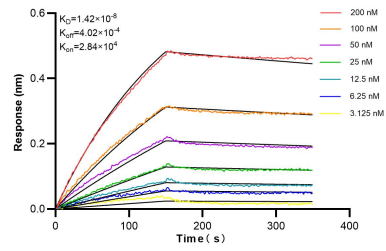
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## Selected Validation Data



Untransfected and human IFN-alpha 4 transfected CHO cells were subjected to SDS PAGE followed by western blot with 87105-1-RR (IFNA4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 87105-1-RR against Human IFN-alpha 4/IFNA4 were performed. The affinity constant is 14.2 nM.