

[Go to Product page](#)

## Datasheet for ABIN7317898 IFNAR2 Protein (Fc Tag)

### Overview

Quantity:	100 µg
Target:	IFNAR2
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IFNAR2 protein is labelled with Fc Tag.

### Product Details

Purpose:	Recombinant Human IFNAR2/IFNABR Protein (Fc Tag)(Active)
Sequence:	Met 1-Lys 243
Characteristics:	A DNA sequence encoding the extracellular domain of human IFNAR2 isoform a (NP_997468.1) (Met 1-Lys 243) was fused with the Fc region of human IgG1 at the C-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to inhibit rh IFNβ mediated protection of WISH Human amnion cells infected with vesicular stomatitis virus (VSV) to viral lysis. The EC50 for this effect is typically 0.2-1.2µg/mL.

### Target Details

Target:	IFNAR2
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## Target Details

Alternative Name: IFNAR2/IFNABR ([IFNAR2 Products](#))

**Background:** Background: Interferon-alpha/beta receptor beta chain (IFNAR2) is a type I membrane protein that forms one of the two chains of a receptor for interferons alpha and beta. Binding and activation of the receptor stimulates Janus protein kinases; which in turn phosphorylate several proteins; including STAT1 and STAT2. Initial cell-surface IFNAR2 expression at diagnosis assessed by flow cytometry widely distributed but showed overall significantly higher expression in CML patients when compared with normal controls. In 15 fresh patients who subsequently received IFN $\alpha$  therapy; IFNAR2 expression at diagnosis was significantly higher in cytogenetic good responders than in poor responders. Down-regulation of IFNAR2 expression during IFN $\alpha$  therapy was observed only in good responders but not in poor responders. The encoded protein also functions as an antiviral factor. IFNAR2 may associate with IFNAR1 to form the type I interferon receptor. This protein serves as a receptor for interferons alpha and beta. IFNAR2 is also involved in IFN-mediated STAT1; STAT2 and STAT3 activation. Isoform 1 and isoform 2 are directly involved in signal transduction due to their association with the TYR kinase; JAK1. Isoform 3 is a potent inhibitor of type I IFN receptor activity. Following binding of IFN $\alpha$ 2; IFNAR2 is internalized; but; instead of being routed towards degradation as it is when complexed to IFN $\beta$ ; it recycles back to the cell surface.

Synonym: IFN-alpha-REC;IFN-R;IFNABR;IFNARB

Molecular Weight: 51.8 kDa

NCBI Accession: [NP\\_997468](#)

Pathways: [JAK-STAT Signaling, Hepatitis C](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

**Storage Comment:** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted

samples are stable at  $< -20^{\circ}\text{C}$  for 3 months.