

IFNAR2 active protein

IFNAR2 Protein, Human, Recombinant (hFc Tag)

CATALOG #
AAA257877

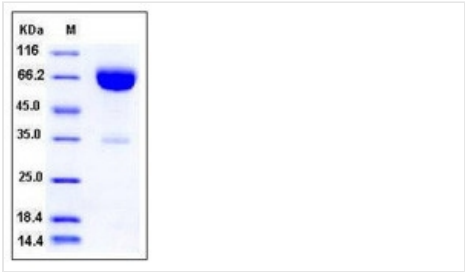
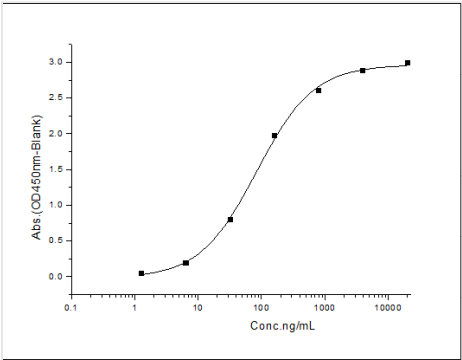
HOST
HEK293 Cells

PRODUCT SYNONYMS

IFNAR2; IFNAR2 Protein; Human; Recombinant (hFc Tag); Human IFNAR2/IFNABR Protein (Fc Tag); IFN-alpha-REC Protein; IFN-R Protein; IFNABR Protein; IFNARB Protein; interferon (alpha; beta and omega) receptor 2; IFNAR2 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>90% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Lys24 3
Species	Human
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Ile 27
Tag	C-human IgG1-Fc
Protein Construction	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.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	1. Measured by its ability to inhibit rh IFNbeta mediated protection of WISH Human amnion cells infected with vesicular stomatitis virus (VSV) to viral lysis. The EC50 for this effect is typically 0.2-1.2ug/mL. 2. Measured by its binding ability in a functional ELISA. Immobilized PPICZa-IFNA2 at 10ug/mL (100uL/well) can bind IFNaR2-Fc. The EC50 of IFNaR2-Fc is 60-200ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data

Measured by its binding ability in a functional ELISA. Immobilized PPICZa-IFNA2 at 10 ug/mL (100 uL/well) can bind IFNaR2-Fc, the EC50 of IFNaR2-Fc is 60-200 ng/mL.

ADDITIONAL INFORMATION

Related Product Information for IFNAR2 active protein

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 stimulate Janus protein kinases, which in turn phosphorylate several proteins, including STAT1 and STAT2. Initial cell-surface IFNAR2 expression at test assessed by flow cytometry was widely distributed but showed overall significantly higher expression in CML patients when compared with normal controls. In 15 fresh patients who subsequently received IFNalpha therapy, IFNAR2 expression at test was significantly higher in cytogenetic good responders than in poor responders. Down-regulation of IFNAR2 expression during IFNalpha 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 IFNalpha2, IFNAR2 is internalized, but, instead of being routed towards degradation as it is when complexed to IFNbeta, it recycles back to the cell surface.

References

Ito K, et al. (2004) Initial expression of interferon alpha receptor 2 (IFNAR2) on CD34-positive cells and its down-regulation correlate with clinical response to interferon therapy in chronic myelogenous leukemia. Eur J Haematol. 73(3): 191-205. Kim SH, et al. (1997) Mammalian type I interferon receptors consists of two subunits: IFNaR1 and IFNaR2. Gene. 196(1-2): 279-86. Saleh AZ, et al. (2004) Regulated proteolysis of the IFNaR2 subunit of the interferon-alpha receptor. Oncogene. 23(42): 7076-86.

NCBI AND UNIPROT INFORMATION

NCBI GI #	46488937
NCBI GeneID	3455
NCBI Accession #	NP_997468.1
NCBI GenBank Nucleotide #	NM_207585.2
UniProt Accession #	P48551; Q15467; Q6FHD7; A8KAJ4; D3DSE8; D3DSE9
Molecular Weight	27,384 Da
NCBI Official Full Name	interferon alpha/beta receptor 2 isoform a
NCBI Official Synonym Full Names	interferon alpha and beta receptor subunit 2
NCBI Official Symbol	IFNAR2
NCBI Official Synonym Symbols	IFN-R; IMD45; IFNABR; IFNARB; IFN-alpha-REC
NCBI Protein Information	interferon alpha/beta receptor 2
UniProt Protein Name	Interferon alpha/beta receptor 2

UniProt Gene Name	IFNAR2
UniProt Synonym Gene Names	IFNABR; IFNARB; IFN-R-2; IFN-alpha binding protein; IFN-alpha/beta receptor 2
UniProt Entry Name	INAR2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/hek293-active-protein/ifnar2/257877>