

Interferon Receptor alpha Antibody
Rabbit mAb
Catalog # AP91164**Specification**

Interferon Receptor alpha Antibody - Product Information

Application	WB
Primary Accession	P17181
Clonality	Monoclonal
Other Names	
AVP; IFN alpha REC; IFNAR1; IFNBR; IFRC; interferon (alpha beta and omega) receptor 1;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	63525 Da

Interferon Receptor alpha Antibody - Additional Information

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Interferon Receptor alpha
Description	Interferon Receptor alpha (IFN-a R1) is a class II cytokine receptor which belongs to type I human interferons (IFNs) family. IFNs plays a role in antiviral, antiproliferative, immunomodulatory, antitumor, and antiparasitic activities by inducing transcription of IFN-stimulated genes (ISGs) through activation of the Jak-STAT pathway.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Interferon Receptor alpha Antibody - Protein Information

Name IFNAR1

Synonyms IFNAR

Function

Together with IFNAR2, forms the heterodimeric receptor for type I interferons (including interferons alpha, beta, epsilon, omega and kappa) (PubMed:10049744, PubMed:14532120, PubMed:15337770, PubMed:2153461, PubMed:<a

<http://www.uniprot.org/citations/21854986> target="_blank">21854986, PubMed:24075985, PubMed:31270247, PubMed:33252644, PubMed:35442418, PubMed:7813427). Type I interferon binding activates the JAK-STAT signaling cascade, resulting in transcriptional activation or repression of interferon-regulated genes that encode the effectors of the interferon response (PubMed:10049744, PubMed:21854986, PubMed:7665574). Mechanistically, type I interferon- binding brings the IFNAR1 and IFNAR2 subunits into close proximity with one another, driving their associated Janus kinases (JAKs) (TYK2 bound to IFNAR1 and JAK1 bound to IFNAR2) to cross-phosphorylate one another (PubMed:21854986, PubMed:32972995, PubMed:7665574, PubMed:7813427). The activated kinases phosphorylate specific tyrosine residues on the intracellular domains of IFNAR1 and IFNAR2, forming docking sites for the STAT transcription factors (PubMed:21854986, PubMed:32972995, PubMed:7526154, PubMed:7665574, PubMed:7813427). STAT proteins are then phosphorylated by the JAKs, promoting their translocation into the nucleus to regulate expression of interferon-regulated genes (PubMed:19561067, PubMed:21854986, PubMed:32972995, PubMed:7665574, PubMed:7813427, PubMed:9121453). Can also act independently of IFNAR2: form an active IFNB1 receptor by itself and activate a signaling cascade that does not involve activation of the JAK-STAT pathway (By similarity).

Cellular Location

[Isoform 1]: Cell membrane; Single-pass type I membrane protein. Late endosome. Lysosome. Note=Interferon binding triggers internalization of the receptor from the cell membrane into endosomes and then into lysosomes.

Tissue Location

IFN receptors are present in all tissues and even on the surface of most IFN-resistant cells. Isoform 1, isoform 2 and isoform 3 are expressed in the IFN-alpha sensitive myeloma cell line U266B1. Isoform 2 and isoform 3 are expressed in the IFN-alpha resistant myeloma cell line U266R. Isoform 1 is not expressed in IFN- alpha resistant myeloma cell line U266R.

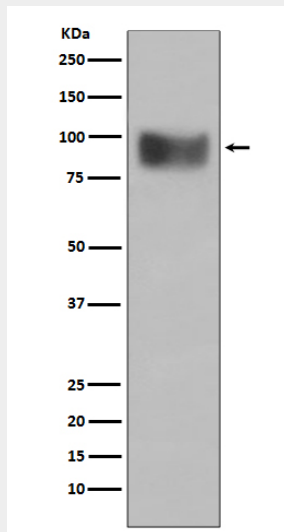
Interferon Receptor alpha Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Interferon Receptor alpha Antibody - Images



Western blot analysis of Interferon Receptor alpha expression in SH-SY5Y cell lysate.