

# Anti-IFNAR1 (pY466) Antibody

Rabbit polyclonal antibody to IFNAR1 (pY466)

Catalog # AP60017

## Product Information

Application	WB, IHC
Primary Accession	<a href="#">P17181</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	63525

## Additional Information

Gene ID	3454
Other Names	IFNAR; Interferon alpha/beta receptor 1; IFN-R-1; IFN-alpha/beta receptor 1; Cytokine receptor class-II member 1; Cytokine receptor family 2 member 1; CRF2-1; Type I interferon receptor 1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human IFNAR1 (pY466). The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IP (1/10 - 1/100) IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## 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: <a href="#">10049744</a> , PubMed: <a href="#">14532120</a> , PubMed: <a href="#">15337770</a> , PubMed: <a href="#">2153461</a> , PubMed: <a href="#">21854986</a> , PubMed: <a href="#">24075985</a> , PubMed: <a href="#">31270247</a> , PubMed: <a href="#">33252644</a> , PubMed: <a href="#">35442418</a> , PubMed: <a href="#">7813427</a> ). 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: <a href="#">10049744</a> , PubMed: <a href="#">21854986</a> , PubMed: <a href="#">7665574</a> ). 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.

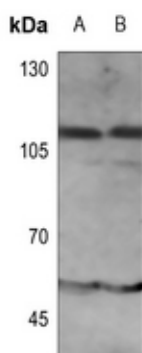
## Background

---

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human IFNAR1 (pY466). The exact sequence is proprietary.

## Images

---



Western blot analysis of IFNAR1 (pY466) expression in A549 (A), H446 (B) whole cell lysates.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.