

# Interferon alpha/beta Receptor 1 Rabbit mAb

Catalog # AP75627

## Product Information

---

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

## Additional Information

---

Gene ID	3454
Other Names	IFNAR1
Dilution	WB~~1/500-1/1000 IP~~N/A
Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

---

Name	IFNAR1
Synonyms	IFNAR
Function	<p>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:<a href="#">21854986</a>, PubMed:<a href="#">32972995</a>, PubMed:<a href="#">7665574</a>, PubMed:<a href="#">7813427</a>). The activated kinases phosphorylate specific tyrosine residues on the intracellular domains of IFNAR1 and IFNAR2, forming docking sites for the STAT transcription factors (PubMed:<a href="#">21854986</a>, PubMed:<a href="#">32972995</a>, PubMed:<a href="#">7526154</a>,</p>

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

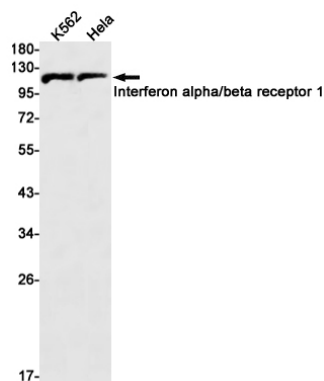
[Isoform 1]: Cell membrane; Single-pass type I membrane protein. Late endosome. Lysosome. Note=Interferon binding triggers internalization of the receptor from the cell membrane into endosomes and then into lysosomes.

### 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.

## Images

---



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