

# Anti-IFNAR1 Reference Antibody (Faralimomab)

Recombinant Antibody

Catalog # APR10945

## Product Information

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Application	FC, Kinetics, Animal Model
Primary Accession	<a href="#">P17181</a>
Reactivity	Human
Clonality	Monoclonal
Isotype	mIgG1
Calculated MW	63525

## Additional Information

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Target/Specificity	IFNAR1
Endotoxin	
Conjugation	Unconjugated
Expression system	CHO Cell
Format	Purified monoclonal antibody supplied in PBS, pH6.0, without preservative. This antibody is purified through a protein A column.

## Protein Information

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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>, PubMed:<a href="#">7665574</a>, PubMed:<a href="#">7813427</a>). STAT proteins are then phosphorylated</p>

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).

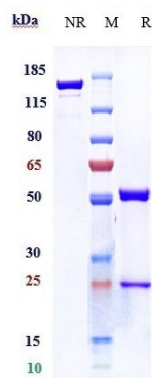
## Cellular Location

[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.

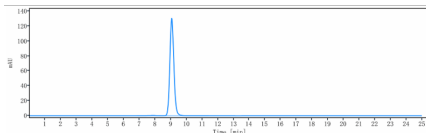
## Tissue Location

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



Anti-IFNAR1 Reference Antibody (Faralimomab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



The purity of Anti-IFNAR1 Reference Antibody (Faralimomab) is more than 99.35% ,determined by SEC-HPLC.

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