



Rabbit Anti-phospho-IFNAR1 (Ser535+Ser539) antibody

SL5457R

Product Name:	phospho-IFNAR1 (Ser535+Ser539)
Chinese Name:	磷酸化Interferon α 受体抗体
Alias:	IFNAR1 (phospho S535 + S539); p-IFNAR1 (phospho S535 + S539); IFN alpha REC; IFN alpha receptor; IFN alpha/beta Receptor alpha; IFN beta receptor; IFNAR; IFNAR1; IFRC; Interferon alpha/beta receptor alpha chain; INAR1 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Sheep,Guinea Pig,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=0.2ug/tetsIF=1:100- 500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	61kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human IFNAR1 around the phosphorylation site of Ser535+Ser539:QD(p-S)GNY(p-S)NE
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	IFNAR1 is a member of the cytokine receptor superfamily which also includes receptors

for interleukins, IFN gamma, ciliary neurotrophic factor, somatotrophin, erythropoietin, nerve growth factor, tumor necrosis factor, leukemia inhibitory factor, and oncostatin M. Some members of the family have an alpha chain with either low or high ligand binding affinity and at least one beta chain involved in signal transduction with either relatively low or no ligand binding affinity. Type I interferons, alpha and beta, induce a variety of effects on target cells including antiviral, antiproliferative, and immunomodulatory activities. The alpha and beta interferons compete to bind to a common cell surface receptor, while IFN gamma binds to a distinct receptor. IFNAR1 is very responsive to type I interferons and bind to IFN beta and IFN alpha subtypes. It is also functionally involved in signal transduction because of its association with the cytoplasmic tyrosine kinase JAK1. The type I interferons, alpha and beta, are produced by leukocytes (alpha subunits), fibroblasts (beta subtypes), lymphocytes (omega subtypes), and ruminant embryos (tau subtypes). Interferon receptors are generally found on most human cell types whatever their origin, even on cells poorly responsive to interferon. IFNAR1 is expressed on the cell surface in a variety of human cell lines.

Function:

Associates with IFNAR2 to form the type I interferon receptor. Receptor for interferons alpha and beta. Binding to type I IFNs triggers tyrosine phosphorylation of a number of proteins including JAKs, TYK2, STAT proteins and IFNR alpha- and beta-subunits themselves.

Subunit:

Belongs to the type II cytokine receptor family. Contains 3 fibronectin type-III domains.

Subcellular Location:

Membrane.

Tissue Specificity:

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 U266S. 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.

Post-translational modifications:

Phosphorylated on tyrosine residues by TYK2 tyrosine kinase.
Palmitoylation at Cys-463 is required for the activation of STAT1 and STAT2.

SWISS:

P17181

Gene ID:

3454

Database links:

[Entrez Gene: 3454](#) Human

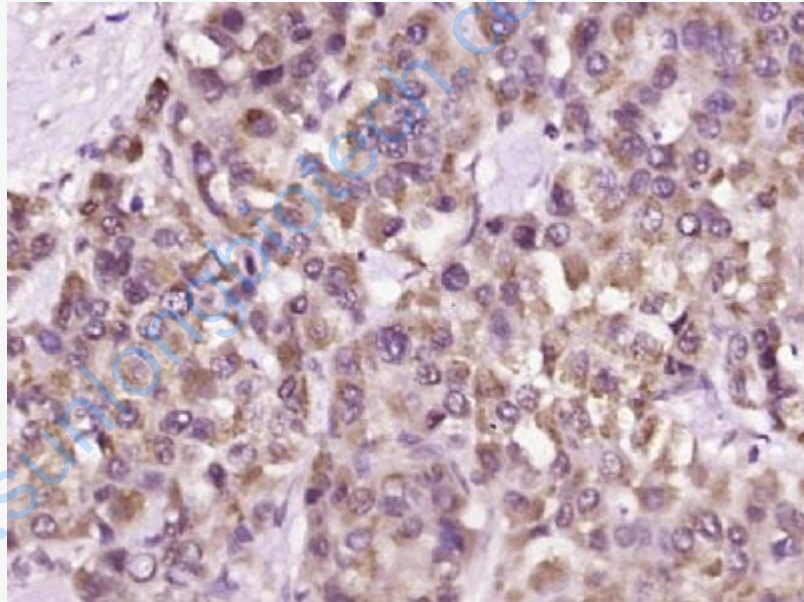
[Omin: 107450](#) Human

[SwissProt: P17181](#) Human

[Unigene: 529400](#) Human

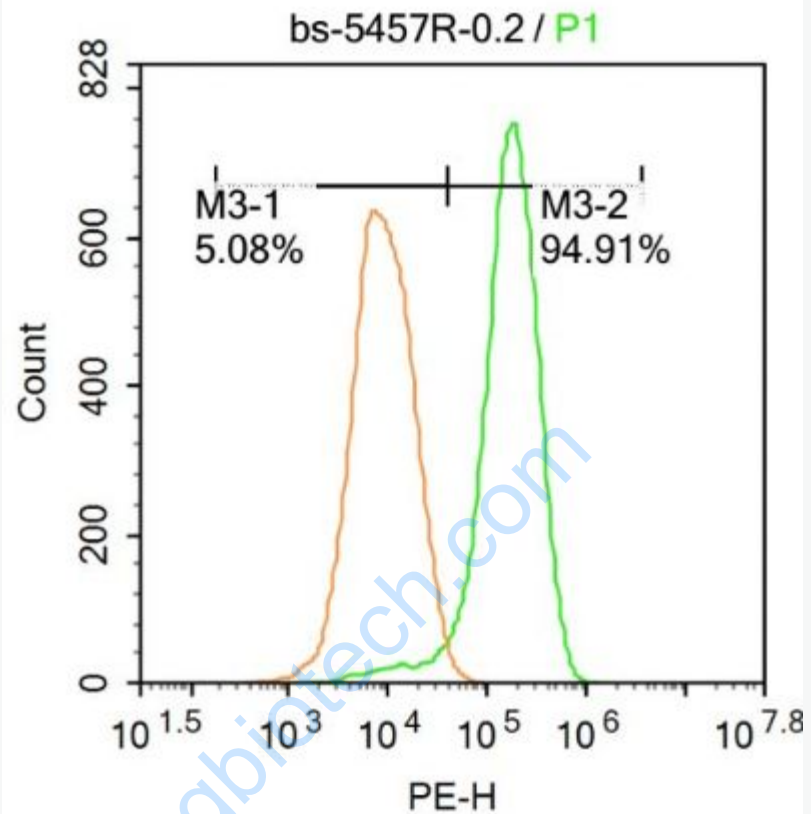
Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Paraformaldehyde-fixed, paraffin embedded (human liver carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (INAR1) Polyclonal Antibody, Unconjugated (SL5457R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



U-937 cells were fixed with 4% PFA for 10min at room temperature, permeabilized with 20% PBST for 20 min at room temperature, and incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with phospho-IFNAR1(Ser535+Ser539) Antibody(SL5457R) at 1:500 dilution in blocking buffer and incubated for 30 min at room temperature, washed twice with 2% BSA in PBS, followed by secondary antibody incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed. Cells stained with primary antibody (green), and isotype control (orange).