

IFNAR2 Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF2713a

Specification

IFNAR2 Antibody (internal region) - Product Information

Application	IHC, FC
Primary Accession	P48551
Other Accession	NP_000865.2 , NP_997467.1 , NP_997468.1 , 3455
Predicted	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	57759

IFNAR2 Antibody (internal region) - Additional Information

Gene ID 3455

Other Names

Interferon alpha/beta receptor 2, IFN-R-2, IFN-alpha binding protein, IFN-alpha/beta receptor 2, Interferon alpha binding protein, Type I interferon receptor 2, IFNAR2, IFNABR, IFNARB

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

IFNAR2 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

IFNAR2 Antibody (internal region) - Protein Information

Name IFNAR2

Synonyms IFNABR, IFNARB

Function

Together with IFNAR1, forms the heterodimeric receptor for type I interferons (including interferons alpha, beta, epsilon, omega and kappa) (PubMed:10049744, PubMed:10556041, PubMed:21854986, PubMed:21854986, PubMed:21854986, PubMed:21854986)

href="http://www.uniprot.org/citations/26424569" target="_blank">26424569, PubMed:28165510, PubMed:32972995, PubMed:7665574, PubMed:7759950, PubMed:8181059, PubMed:8798579, PubMed:8969169). 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:17517919, PubMed:21854986, PubMed:26424569, PubMed:28165510, PubMed:32972995, PubMed:7665574, PubMed:7759950, PubMed:8181059, PubMed:8798579, PubMed:8969169). 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:10556041, PubMed:11682488, PubMed:12105218, PubMed:21854986, PubMed:32972995). The activated kinases phosphorylate specific tyrosine residues on the intracellular domains of IFNAR1 and IFNAR2, forming docking sites for the STAT transcription factors (STAT1, STAT2 and STAT3) (PubMed:11682488, PubMed:12105218, PubMed:21854986, PubMed:32972995). STAT proteins are then phosphorylated by the JAKs, promoting their translocation into the nucleus to regulate expression of interferon-regulated genes (PubMed:12105218, PubMed:28165510, PubMed:9121453).

Cellular Location

[Isoform 1]: Cell membrane; Single-pass type I membrane protein [Isoform 3]: Secreted

Tissue Location

Isoform 3 is detected in the urine (at protein level) (PubMed:7759950, PubMed:8181059).
Expressed in blood cells Expressed in lymphoblastoid and fibrosarcoma cell lines

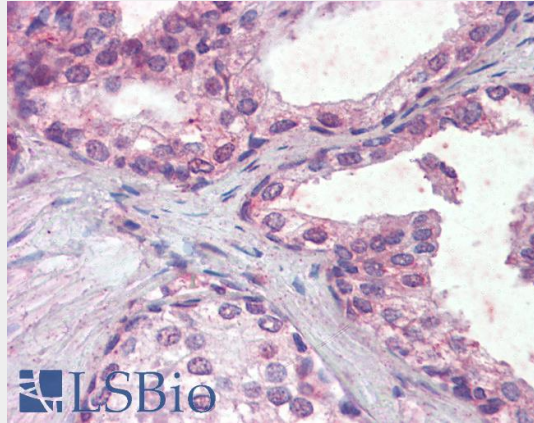
IFNAR2 Antibody (internal region) - Protocols

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

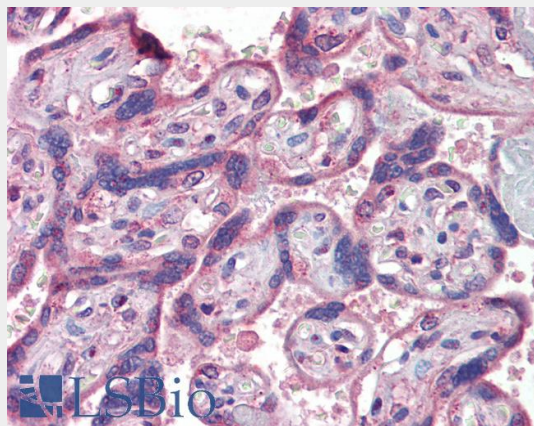
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

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

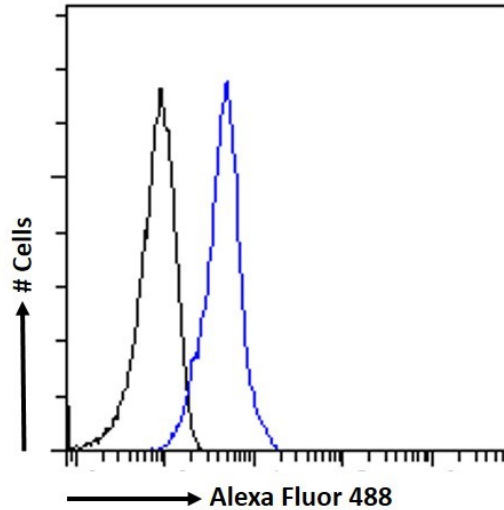
IFNAR2 Antibody (internal region) - Images



EB08349 (5 μ g/ml) staining of paraffin embedded Human Prostate. Steamed antigen retrieval with citrate buffer Ph 6, AP-staining.



EB08349 (5 μ g/ml) staining of paraffin embedded Human Placenta. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB08349 Flow cytometric analysis of paraformaldehyde fixed K562 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) fo

IFNAR2 Antibody (internal region) - Background

This antibody is expected to recognise all three reported isoforms (NP_000865.2 ; NP_997467.1; NP_997468.1)

IFNAR2 Antibody (internal region) - References

Resistance to alpha/beta interferon is a determinant of West Nile virus replication fitness and virulence. Keller BC, Fredericksen BL, Samuel MA, Mock RE, Mason PW, Diamond MS, Gale M Jr. J Virol. 2006 Oct;80(19):9424-34. PMID: 16973548