

IFN alpha 2b Antibody
Rabbit Polyclonal Antibody
Catalog # ABV11014**Specification**

IFN alpha 2b Antibody - Product Information

Application	WB
Primary Accession	P48551
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	57759

IFN alpha 2b Antibody - Additional Information**Gene ID** 3455**Application & Usage****Western blotting (1-10 µg/ml). However, the optimal conditions should be determined individually.****Other Names**

Interferon alpha 1, Interferon alpha1, Interferon alpha

Target/Specificity

IFNa 2b

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) affinity purified rabbit anti-human IFN-alpha 2b polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5mg/ml BSA and 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

IFN alpha 2b Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

IFN alpha 2b Antibody - 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:8181059, PubMed:7665574, PubMed:7759950, PubMed:8798579, PubMed:8969169, PubMed:10049744, PubMed:10556041, PubMed:21854986, PubMed:26424569, PubMed:28165510, PubMed:32972995). 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:8181059, PubMed:7665574, PubMed:7759950, PubMed:8798579, PubMed:8969169, PubMed:10049744, PubMed:17517919, PubMed:21854986, PubMed:26424569, PubMed:28165510, PubMed:32972995). 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:9121453, PubMed:12105218, PubMed:28165510).

Cellular Location

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

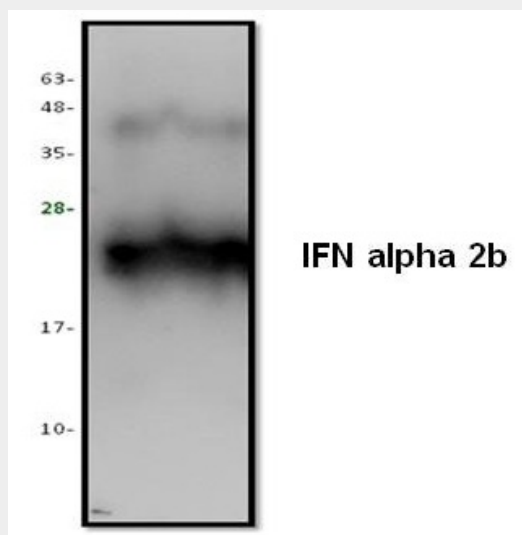
Tissue Location

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

IFN alpha 2b Antibody - 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](#)

IFN alpha 2b Antibody - Images

Western blot analysis using Recombinant human IFN alpha 2b (100ng).

IFN alpha 2b Antibody - Background

IFN-alpha 2b is a lymphoid factor that possesses potent anti-viral activity. Human IFN-a is a 19.3 kDa protein containing 165 amino acid residues.