Human IFN-α/β R2 Alexa Fluor® 594-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF7014T
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IFN-α/β R2 C-Terminus in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) IFN-α/β R2a, rhIFN-α/β Rα, and recombinant mouse IFN-α/β R2 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human IFN-α/β R2 C-Terminus Ser351-Met514 Accession # P48551
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

IFN-α/βR2 (Interferon alpha/beta receptor 2/IFNAR2; also IFNα binding protein) is a 90-102 kDa member of the class II cytokine receptor family of molecules. It is expressed on hematopoietic cells, including T cells, NK cells, B cells and monocytes. It serves as a ligand binding subunit for type I IFN, and generates a functional IFN receptor by complexing with 125 kDa IFNAR1. Multiple type I IFNs signal through this heterodimeric receptor with distinct outcomes. This may be attributable to unique structural conformations created by the Type I IFN:IFNAR1 interaction, or the use of a truncated isoform of IFNAR2. Mature human IFNAR2 is a 489 amino acid (aa) type I transmembrane glycoprotein (aa 27-515). It contains a 217 aa extracellular region (aa 27-243) that contains an Ig-like domain (aa 39-118), a fibronectin type III domain, and a 251 aa cytoplasmic tail. There are two isoform variants. The first is 50-55 kDa in size and contains a 51 aa substitution for aa 281-515. The second is a 40 kDa soluble form that shows a two aa substitution for aa 238-515. IFNAR2 also undergoes proteolysis. Cleavage of the 92 kDa isoform generates a 58 kDa membrane-embedded stub that can be further cleaved into 27-35 kDa fragments that undergo nuclear translocation. Over aa 351-514. human IFNAR2 shares 48% aa identity with mouse IFNAR2.

PRODUCT SPECIFIC NOTICES

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