

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IFN-λ4 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 991620
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human IFN-λ4 Ala23-Leu179 Accession # K9M1U5
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.

Immunohistochemistry 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

Interferon-lambda 4 (IFN-λ4) is a secreted, approximately 17 kDa member of the type III interferon family of molecules (1). It is generated by a frameshift mutation based on a TT > ΔG polymorphism (2). The TT allele inactivates expression of IFN-λ4 (2). The ΔG allele is associated with reduced clearance of hepatitis C virus and reduced degranulation of CTL, NK, and NKT cells in the liver during hepatitis (2, 3), although IFN-λ4 itself shows *in vitro* activity against hepatitis C virus (4). IFN-λ4 is expressed in the liver of some chronic hepatitis C patients (5). It signals through a receptor complex containing IL-28 R/IFN-λ R1 and IL-10 Rβ to induce the expression of several interferon stimulated genes (ISG) (2, 4). Alternative splicing generates additional isoforms with large internal deletions or a substituted C-terminal region.

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