



Anti-IFNL1 polyclonal antibody [Biotin] (DPABY-365)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Human/mouse IL-28A (IFN-lambda 2), IL-28B (IFN-lambda 3), and human IL-29 (IFN-lambda 1) are class II cytokine receptor ligands that are distantly related to members of the IL-10 family (11 - 13% amino acid (aa) sequence identity) and type I IFN family (15 - 19% aa sequence identity). These cytokines exert bioactivities that overlap those of type I IFNs, including antiviral activity and up-regulation of MHC class I antigen expression. The proteins signal through the same heterodimeric receptor complex that is composed of the IL-10 receptor beta (IL-10 R beta) and a novel IL-28 receptor alpha (IL-28 R alpha, also known as IFN-lambda R1). Mouse IL-28 shares 61%, 62%, and 52% aa identity with human IL-28A, IL-28B, and IL-29, respectively.
Specificity	Detects human IL-29/IFN-lambda 1 in ELISAs and Western blots. In sandwich immunoassays, approximately 100% cross-reactivity with recombinant human (rh) IL-28B is observed, 35% cross-reactivity with rhIL-28A is observed and less than 0.2% cross-reactivity with rhIFN-alpha A, rhIFN-alpha B2, rhIFN-alpha G, rhIFN alpha I, and rhIFN-beta 1A is observed. In Western blots, approximately 25% cross-reactivity with rhIL-28A and rhIL-28B is observed.
Immunogen	Mouse myeloma cell line NS0-derived recombinant human IL-29/IFN-lambda 1. Gly20-Thr200 Accession Number Q8IU54
Isotype	IgG
Source/Host	Goat
Species Reactivity	Human
Purification	Antigen Affinity-purified
Conjugate	Biotin

Applications	Western Blot, ELISA Detection (Matched Pair)
Format	Liquid
Size	50 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
Preservative	None
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	IFNL1 interferon, lambda 1 [Homo sapiens (human)]
Official Symbol	IFNL1
Synonyms	IFNL1; interferon, lambda 1; IL29; IL-29; interferon lambda-1; IFN-lambda-1; interleukin-29; cytokine Zcyto21; interferon-lambda-1; interleukin 29 (interferon, lambda 1);
Entrez Gene ID	282618
Protein Refseq	NP_742152
UniProt ID	Q8IU54
Chromosome Location	19q13.13
Pathway	Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway; Type III interferon signaling;
Function	cytokine activity; interleukin-28 receptor binding; receptor binding;