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IL-28B Antibody

Catalog # ASC11700

Product Information

Application	WB, IF, E
Primary Accession	Q8IZI9
Other Accession	NP_742151, 28144901
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	21706
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	IL-28B antibody can be used for detection of IL-28B by Western blot at 1 - 2 g/ml.

Additional Information

Gene ID	282617
Other Names	Interferon lambda-3, IFN-lambda-3, Cytokine Zcyto22, Interleukin-28B, IL-28B, Interleukin-28C, IL-28C, IFNL3, IL28B, IL28C, ZCYTO22
Target/Specificity	IFNL3; IL-28B antibody is human specific. IL-28B antibody may cross-react with IL-28A and IL-29.
Reconstitution & Storage	IL-28B antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.
Precautions	IL-28B Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	IFNL3
Synonyms	IL28B, IL28C, ZCYTO22
Function	Cytokine with antiviral, antitumour and immunomodulatory activities. Plays a critical role in the antiviral host defense, predominantly in the epithelial tissues. Acts as a ligand for the heterodimeric class II cytokine receptor composed of IL10RB and IFNLR1, and receptor engagement leads to the activation of the JAK/STAT signaling pathway resulting in the expression of IFN-stimulated genes (ISG), which mediate the antiviral state. Has a restricted receptor distribution and therefore restricted targets: is primarily active in epithelial cells and this cell type-selective action is because of the epithelial cell-specific expression of its receptor IFNLR1. Seems not to be essential for

early virus-activated host defense in vaginal infection, but plays an important role in Toll-like receptor (TLR)- induced antiviral defense. Plays a significant role in the antiviral immune defense in the intestinal epithelium. Exerts an immunomodulatory effect by up-regulating MHC class I antigen expression.

Cellular Location Secreted.

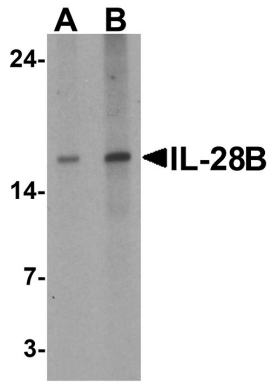
Background

Interleukin 28 (IL-28B), also known as interferon lambda 3, is cytokine distantly related to type I interferons and the IL-10 family (1). The IL-28B gene and the closely related cytokine genes IL-28A and IL-29 form a cytokine gene cluster on a chromosomal region mapped to 19q13. Expression of the cytokines encoded by the three genes can be induced by viral infection and can induce anti-viral activity (2,3). All three cytokines have been shown to interact with a heterodimeric class II cytokine receptor that consists of interleukin 10 receptor-beta (IL10RB) and interleukin 28 receptor- alpha (IL28RA) (1).

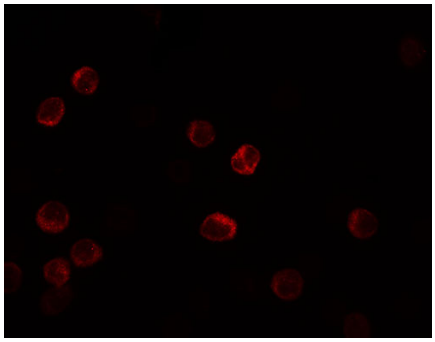
References

Sheppard P, Kindsvogel W, Xu W, et al. IL-28, IL-29 and their class II cytokine receptor IL-28R. Nat. Immunol. 2003; 4:63-8.
Osterlund PI, Pietila TE, Veckman V, et al. IFN regulatory factor family members differentially regulate the expression of type III IFN (IFN-lambda) genes. J. Immunol. 2007; 179:3434-42.
Meager A, Visvalingam K, Dilger P, et al. Biological activity of interleukins-28 and -29: comparison with type I interferons. Cytokine 2005; 31:109-18.

Images



Western blot analysis of IL-28B in HeLa cell lysate with IL-28B antibody at (A) 1 and (B) 2 µg/ml.



Immunofluorescence of IL-28B in HeLa cells with IL-28B antibody at 5 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.