

Interleukin 29 (IL29) Active Protein | IL29 active protein

Active Interleukin 29 (IL29)

CATALOG #
AAA149255

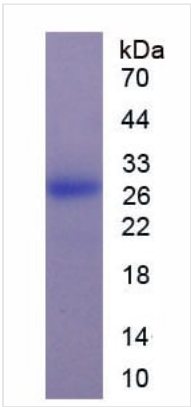
APPLICATIONS
Activity Assay, Cell Culture

PRODUCT SYNONYMS

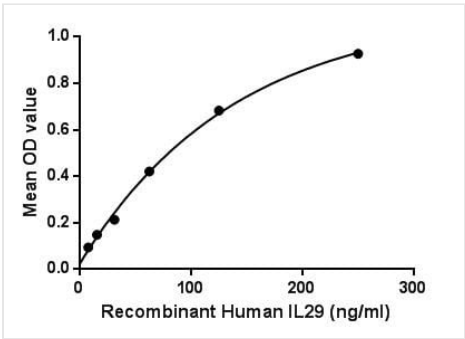
Interleukin 29 (IL29); Active Interleukin 29 (IL29); FNL1; Interferon; Lambda 1; Cytokine Zcyto21; IL29 active protein

PRODUCT SPECIFICATIONS

Purity/Purification	> 90%
Form/Format	Freeze-Dried Powder; 20mM Tris, 150mM NaCl, pH8.0, Containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Sequence Positions	Gly20~Thr200
Sequence Length	200
Applicable Applications for IL29 active protein	Activity Assay, Cell Culture
Species	Human
Tag	N-terminal His-Tag
Isoelectric Point	9.3
Subcellular Location	Secreted
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles. The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



SDS-PAGE



Activity

Figure. The binding activity of IL29 with ATP2B2. Interleukin-29 (IL-29) is a member of the helical cytokine family and is a type III interferon. It is also known as IFNlambda1 and is highly similar in amino acid sequence to the IL-28, the other type III interferon. IL-29 plays an important role in host defenses against microbes and its gene is highly upregulated in cells infected with viruses. Besides, ATPase, Ca Transporting, Plasma Membrane 2 (ATP2B2) has been identified as an interactor of IL29, thus a binding ELISA assay was conducted to detect the interaction of recombinant human IL29 and recombinant human ATP2B2. Briefly, IL29 were diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100μL were then transferred to ATP2B2-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-IL29 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of IL29 and ATP2B2 was shown in Figure 1, and this effect was in a dose dependent manner.

ADDITIONAL INFORMATION

Product Categories/Family for IL29 active protein	Cytokine; Infection immunity
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NCBI AND UNIPROT INFORMATION

NCBI GI #	26024325
NCBI GeneID	282618
NCBI Accession #	NP_742152.1
NCBI GenBank Nucleotide #	NM_172140.2
UniProt Accession #	Q8IU54
Molecular Weight	Predicted MW: 23.7kDa Accurate MW: 27kDa
NCBI Official Full Name	interferon lambda-1
NCBI Official Synonym Full Names	interferon lambda 1
NCBI Official Symbol	IFNL1
NCBI Official Synonym Symbols	IL29; IL-29
NCBI Protein Information	interferon lambda-1
UniProt Protein Name	Interferon lambda-1
UniProt Gene Name	IFNL1
UniProt Synonym Gene Names	IL29; ZCYTO21; IFN-lambda-1; IL-29
UniProt Entry Name	IFNL1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/active-protein/interleukin-29-il29/149255>