

[Go to Product page](#)

Datasheet for ABIN7317851

IL27 Receptor alpha Protein (Fc Tag)

Overview

Quantity:	100 µg
Target:	IL27 Receptor alpha (IL27RA)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL27 Receptor alpha protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Human IL27Ra/TCCR/WSX1 Protein (Fc Tag)(Active)
Sequence:	Met 1-Arg 514
Characteristics:	A DNA sequence encoding the extracellular domain (Met 1-Arg 514) of human IL27Ra (NP_004834.1) was fused with the Fc region of human IgG1 at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized human IL27 at 20 µg/ml (100 µl/well) can bind human IL27Ra with a linear ranger of 0.064-1.6 µg/ml.

Target Details

Target:	IL27 Receptor alpha (IL27RA)
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Target Details

Alternative Name: IL27Ra/TCCR/WSX1 ([IL27RA Products](#))

Background: Background: The interleukin-27 receptor is a type I cytokine receptor for interleukin-27. It is a heterodimer composed of the interleukin 27 receptor, alpha subunit and glycoprotein 130. WSX-1/IL-27R, a class I cytokine receptor that is homologous to the $\beta 2$ chain of the IL-12R in both sequence and structure, is highly expressed by resting/naive CD4⁺ T cells and CD8⁺ T cells. WSX-1/IL-27R belongs to the IL-6/IL-12 family of cytokines and induced proliferation of naive CD4(+) T cells and the generation of a Th1-type adaptive immune response. WSX-1/IL-27R functions as a receptor for IL27. IL-27 not only contributes to the development of an adaptive immune response through its action on CD4(+) T cells, it also directly acts on cells of the innate immune system. WSX-1/IL-27R requires IL6ST/gp130 to mediate signal transduction in response to IL27. This signaling system acts through STAT3 and STAT1. It is involved in the regulation of Th1-type immune responses. IL-27R also appears to be involved in innate defense mechanisms. IL27RA is essential for transcriptional activation of STAT1 and for augmenting the induction of T-bet expression during initiation of Th1 cell differentiation.

Synonym: CRL1,IL-27RA,IL27R,TCCR,WSX1,zcytor1

Molecular Weight: 79 kDa

NCBI Accession: [NP_004834](#)

Pathways: [Regulation of Leukocyte Mediated Immunity](#), [Production of Molecular Mediator of Immune Response](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4, 8 % trehalose, 8 % mannitol

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.