

ARG70315 Mouse IL21R recombinant protein (ECD) (His-tagged, C-ter)

Package: 100 µg
Store at: -20°C

Summary

Product Description	HEK293 expressed, His-tagged (C-ter) Mouse IL21R recombinant protein (ECD).
Tested Reactivity	Ms
Tested Application	Binding, SDS-PAGE
Target Name	IL21R (ECD)
Species	Mouse
A.A. Sequence	Cys20 - Pro236 of Mouse IL21R (NP_068687.1) with 6X His tag at the C-terminus.
Expression System	HEK293
Alternate Names	Interleukin-21 receptor; Novel interleukin receptor; CD360; CD antigen CD360; NILR; IL-21R; IL-21 receptor

Application Instructions

Application Note	Binding activity test: Measured by its binding ability in a functional ELISA. Immobilized Recombinant Mouse IL21R at 2µg/ml (100µl/well) can bind Recombinant Human IL-21 with a linear range of 0.128-83.57 ng/ml.
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Properties

Form	Powder
Purification Note	0.22 µm filter sterilized. Endotoxin level is 97% (by SDS-PAGE)
Buffer	PBS (pH 7.4)
Reconstitution	Reconstitute to a concentration of 0.1 - 0.5 mg/ml in sterile distilled water.
Storage instruction	For long term, lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and store at -20°C for up to one month, at 2-8°C for up to one week. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.
Note	For laboratory research only, not for drug, diagnostic or other use.

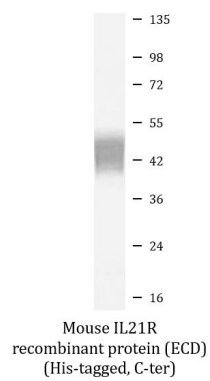
Bioinformation

Gene Symbol	IL21R
Gene Full Name	interleukin 21 receptor
Background	The protein encoded by this gene is a cytokine receptor for interleukin 21 (IL21). It belongs to the type I cytokine receptors, and has been shown to form a heterodimeric receptor complex with the common gamma-chain, a receptor subunit also shared by the receptors for interleukin 2, 4, 7, 9, and 15. This receptor transduces the growth promoting signal of IL21, and is important for the proliferation and differentiation of T cells, B cells, and natural killer (NK) cells. The ligand binding of this receptor leads to the activation of multiple downstream signaling molecules, including JAK1, JAK3, STAT1, and STAT3. Knockout studies of a similar gene in mouse suggest a role for this gene in regulating immunoglobulin

production. Three alternatively spliced transcript variants have been described. [provided by RefSeq, Jul 2010]

Function	This is a receptor for interleukin-21. [UniProt]
Calculated Mw	59 kDa
PTM	C-mannosylated at Trp-214 in the WSXWS motif, the sugar chain makes extensive hydrogen bonds with Asn-73 sugar, and bridges the two fibronectin domains transforming the V-shaped receptor into an A-frame. [UniProt]
Cellular Localization	Membrane; Single-pass type I membrane protein. [UniProt]

Images



ARG70315 Mouse IL21R recombinant protein (ECD) (His-tagged, C-ter) SDS-PAGE image

SDS-PAGE analysis of ARG70315 Mouse IL21R recombinant protein (ECD) (His-tagged, C-ter).