

# Recombinant Human IL1R2/CD121b Protein

Catalog Number:PKSH031864



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

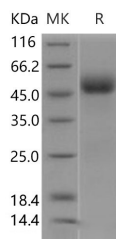
## Description

<b>Synonyms</b>	CD121b;CDw121b;IL-1R-2;IL-1RT-2;IL-1RT2;IL1R2c;IL1RB;Interleukin-1 receptor type 2;IL-1R-2;CD121 antigen-like family member B;CDw121b;IL-1 type II receptor;Interleukin-1 receptor beta;IL-1R-beta;Interleukin-1 receptor type I
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Met 1-Glu 343
<b>Accession</b>	NP_004624.1
<b>Calculated Molecular Weight</b>	38.4 kDa
<b>Observed molecular weight</b>	49 kDa
<b>Tag</b>	None
<b>Bioactivity</b>	Immobilized human IL1R2 at 10 µg/ml (100 µl/well) can bind biotinylated human IL1B-His, The EC50 of biotinylated human IL1B-His is 0.14-0.34 µg/ml.

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Interleukin 1 receptor; type II (IL1R2) also known as CD121b (Cluster of Differentiation 121b) is a cytokine receptor that belongs to the interleukin-1 receptor family. This protein binds interleukin alpha (IL1A); interleukin beta (IL1B); and interleukin 1 receptor; type I (IL1R1/IL1RA); and acts as a decoy receptor that inhibits the activity of its ligands. The pleiotropic cytokine IL1 is produced to regulate development and maintenance of the inflammatory responses; and binds

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to specific plasma membrane receptors on cells. Two distinct types of IL1 receptors which are able to bind IL1 specifically have been identified; designated as IL1RI (IL1RA) and IL1RII (IL1RB). IL1R1 contributes to IL-1 signaling; whereas the IL-1R2/CD121b has no signaling property and acts as a decoy for IL-1. IL-1R2/CD121b structurally consisting of a ligand binding portion comprised of three Ig-like domains; a single transmembrane region; and a short cytoplasmic domain; is expressed in a variety of cell types including B lymphocytes; neutrophils; monocytes; large granular leukocytes and endothelial cells. Interleukin 4 (IL4) is reported to antagonize the activity of interleukin 1 by inducing the expression and release of this cytokine.

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