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IL1R1 Protein (His tag)





Overview

Quantity:	100 μg
Target:	IL1R1
Origin:	Rat
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL1R1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Rat IL1R1/CD121a Protein (His Tag)(Active)
Sequence:	Met 1-Lys 352
Characteristics:	A DNA sequence encoding the rat IL1R1 (NP_037255.3) extracellular domain (Met 1-Lys 352) was expressed, fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per μg of the protein as determined by the LAL method
Biological Activity Comment:	Immobilized rat IL1R1-His at 10 μ g/ml (100 μ l/well) can bind rat Fc-IL1RN, The EC50 of rat Fc-IL1RN is 5.1-11.9 ng/ml.

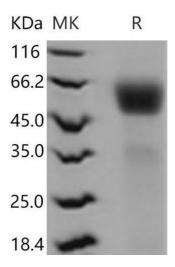
Target Details

Target Details

Alternative Name:	IL1R1/CD121a (IL1R1 Products)
Background:	Background: Interleukin 1 receptor, type I (IL-1R1) also known as CD121a (Cluster of
	Differentiation 121a), is an interleukin receptor. IL-1R1/CD121a is a cytokine receptor that
	belongs to the interleukin 1 receptor family. This protein is a receptor for interleukin alpha
	(IL1A), interleukin beta (IL1B), and interleukin 1 receptor, type I (IL1R1/IL1RA). IL-1R1/CD121a is
	an important mediator involved in many cytokine induced immune and inflammatory
	responses. This protein has been characterized by pharmacological and molecular techniques
	in the mouse brain. The spindle-shaped astrocytes enclose the wound, separating the healthy
	from damaged neural tissue. The shape change and subsequent repair processes are IL-1 β
	activity-dependent, acting through the IL-1 type 1 receptor (IL-1R1), as co-application of the IL-
	1type 1 receptor antagonist protein (IL-1ra) blocks IL-1β induced effects. In the spleen, a slight
	increase in IL-1R AcP and IL-1R1 was observed during the first hours following LPS stimulation
	In conclusion, IL-1R AcP mRNA is expressed in the brain and in other tissues where IL-
	1R1/CD121a transcripts are found. However, the regulation of its expression is distinct from IL-
	1R1/CD121a. The high level of expression and the lack of regulation of IL-1R AcP transcripts in
	the brain under inflammatory conditions suggest that the protein might be constitutively
	expressed in excess.
	Synonym: Il1r1
Molecular Weight:	38.5 kDa
NCBI Accession:	NP_037255
Pathways:	NF-kappaB Signaling, Carbohydrate Homeostasis, Cancer Immune Checkpoints
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
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.

Images



Western Blotting

Image 1.