antibodies

Datasheet for ABIN7321236 IL1R1 Protein (His tag,Fc Tag)

Image



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,Fc Tag.

Product Details

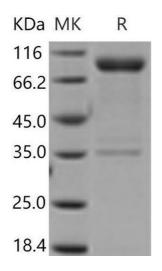
Purpose:	Recombinant Rat IL1R1/CD121a Protein (His & Fc Tag)(Active)
Sequence:	Met 1-Lys 352
Characteristics:	A DNA sequence encoding the rat IL1R1 (NP_037255.3) extracellular domain (Met 1-Lys 352) was was fused with the C-terminal His-tagged Fc region of mouse IgG1 at the C-terminus.
Purity:	> 85 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per μ g of the protein as determined by the LAL method
Biological Activity Comment:	Measured by its ability to inhibit IL1α-dependent proliferation in D10.G4.1 mouse helper T cells(Symons, J.A. et al. (1987) in Lymphokines and Interferons, a Practical Approach. Clemens, M.J. et al. (eds): IRL Press. 272.).The ED50 for this effect is typically 5-20 µg/ml in the presence of 40 pg/mL of recombinant human IL1a.

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Target:	IL1R1
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 eta
	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-1 β 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: II1r1
Molecular Weight:	64.6 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.

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Images



Western Blotting

Image 1.

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