Active Recombinant Rat Il1r1 protein, His-tagged

Cat. No. Il1r1-884R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Rat Il1r1 protein(Q02955)(386~553 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Rat
Source	E.coli
ProteinLength	386-553 aa
Form	Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	IL1R1 (Interleukin 1 Receptor Type I), also known as CD121a, is an important mediator involved in many cytokine induced immune and inflammatory responses. It belongs to the interleukin-1 receptor family, and is a receptor for interleukin 1 alpha (IL1A), interleukin 1 beta (IL1B), and interleukin 1 receptor antagonist (IL1RA). Besides, mouse IL1B shares 87.0% AA sequence identity with rat IL1B, suggesting the exist of cross-species activity. Thus, a binding ELISA assay was constructed to detect the association of recombinant rat IL1R1 with recombinant mouse IL1B. Briefly, IL1R1 were diluted serially in PBS with 0.1%BSA (pH 7.4). Duplicate samples of 100uL were then transferred to IL1B-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-IL1R1 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate

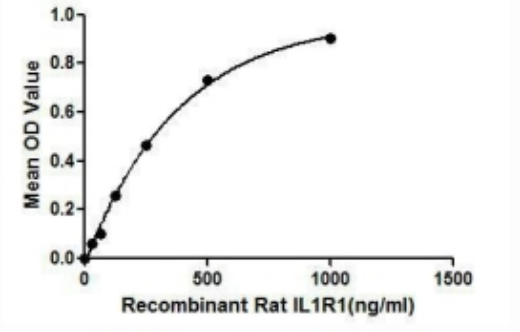
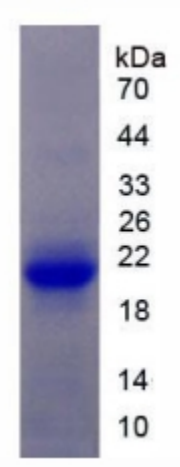
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	solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µ stop solution to the wells and read at 450nm immediately. The binding activity of IL1R1 with IL1B was shown and this effect was in a dose dependent manner.
Molecular Mass	20.8kDa
Purity	> 97% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Il1r1 interleukin 1 receptor, type I [Rattus norvegicus]
Official Symbol	Il1r1
Synonyms	IL1R1; interleukin 1 receptor, type I; interleukin-1 receptor type 1; p80; IL-1R-1; IL-1RT1; IL-1RT-1; IL-1R-alpha; interleukin-1 receptor alpha; interleukin-1 receptor type I; CD121 antigen-like family member A; interleukin 1 beta receptor type 1 soluble form; interleukin 1 bete receptor type 1 long transmembrane form; interleukin 1 beta receptor type 1 short transmembrane form;
Gene ID	25663
mRNA Refseq	NM_013123
Protein Refseq	NP_037255

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Activity	
SDS-PAGE	

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