Active Recombinant Rat Il1rn protein, His-tagged

Cat. No. Il1rn-2299R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Rat Il1rn protein(p25086)(27~178 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Rat
Source	E.coli
ProteinLength	27-178 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	The interleukin-1 receptor antagonist (IL-1RA) is a member of the interleukin 1 cytokine family. IL1Ra is secreted by various types of cells including immune cells, epithelial cells, and adipocytes, and is a natural inhibitor of the pro-inflammatory effect of IL1β. IL-1RN is an agent that binds to the cell surface interleukin-1 receptor (IL-1R), which would prevent IL-1 from intracellular signal transduction. Thus, a binding ELISA assay was conducted to detect the interaction of recombinant rat IL-1RN and recombinant rat IL-1R1. Briefly, IL-1RA were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100μl were then transferred to IL-1R1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-IL-1RN 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 solution, wells were incubated 15-25 minutes at

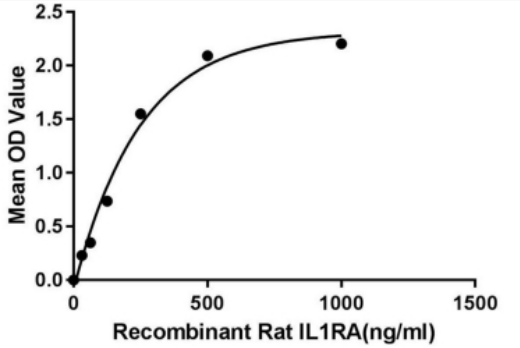
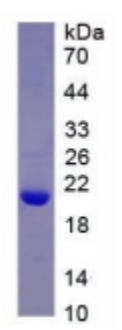
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	37°C. Finally, add 50µstop solution to the wells and read at 450nm immediately. The binding activity of IL-1RA and IL-1R1 was shown, and this effect was in a dose dependent manner.
Molecular Mass	21.1kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90% 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 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Il1rn interleukin 1 receptor antagonist [Rattus norvegicus]
Official Symbol	Il1rn
Synonyms	IL1RN; interleukin 1 receptor antagonist; interleukin-1 receptor antagonist protein; IRAP; IL-1RN; IL1 inhibitor; IL-1ra;
Gene ID	60582
mRNA Refseq	NM_022194
Protein Refseq	NP_071530

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Activity	
SDS-PAGE	

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