

Active Recombinant Rat Il13 protein, His-tagged

Cat. No. II13-1661R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Rat Il13 protein(P42203)(22~131 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Rat
Source	E.coli
ProteinLength	22-131 aa
Form	Lyophilized from sterile 100mMNaHCO ₃ , 500mMNaCl, pH8.3, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	Interleukin 13 (IL13) is cytokine secreted by many cell types, but especially T helper type 2 (Th2) cells. IL13 has effects on immune cells that are similar to those of the closely related cytokine IL4. Although IL13 is associated primarily with the induction of airway disease, it also has anti-inflammatory properties. IL13 induces a class of protein-degrading enzymes, known as matrix metalloproteinases (MMPs), in the airways. Furthermore, IL-13 can induce immunoglobulin E (IgE) secretion from activated human B cells. Besides, Interleukin 13 Receptor Alpha 1 (IL13Ra1) has been identified as an interactor of IL13, thus a binding ELISA assay was conducted to detect the interaction of recombinant rat IL13 and recombinant rat IL13Ra1. Briefly, IL13 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to IL13Ra1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-IL13 pAb, then

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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 37°C. Finally, add 50µ stop solution to the wells and read at 450nm immediately. The binding activity of IL13 and IL13Ra1 was shown, and this effect was in a dose dependent manner.

Molecular Mass	15.8kDa
Purity	> 80% 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 100mM NaHCO ₃ , 500mM NaCl (pH8.3) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

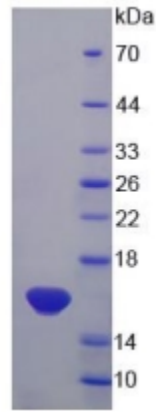
Gene Name	IL13 interleukin 13 [<i>Rattus norvegicus</i>]
Official Symbol	IL13
Synonyms	IL13; interleukin 13; interleukin-13; IL-13; T-cell activation protein P600;
Gene ID	116553
mRNA Refseq	NM_053828
Protein Refseq	NP_446280

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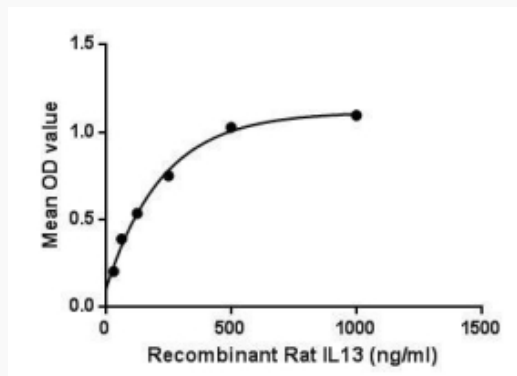
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SDS-PAGE



Activity



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