

Rat IL13 protein, His tag

Cat. No. GTX00368-pro

Applications Functional Assay**Species** Rat**Package**

10 µg

Applications

Application Note

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 100 µl 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 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 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of IL13 and IL13Ra1 was in a dose dependent manner.

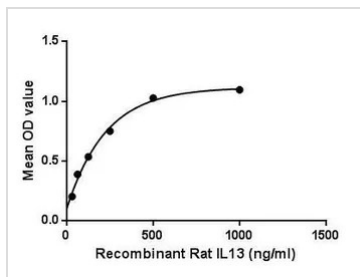
Observed MW (kDa) 16 kDa.

Properties

Form Lyophilized powder**Buffer** Reconstitute with 100mM NaHCO₃ and 500mM NaCl (pH8.3) to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 100mM NaHCO₃ (pH8.3), 500mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.**Preservative** ProClin 300**Storage** For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.**Region/Sequence** N-terminal His-Tag; Pro22~His131 (NP_446280.1)**Expression System** E. coli**Purity** > 80%**Endotoxin** < 1 EU/µg**Conjugation** Unconjugated**Note** For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

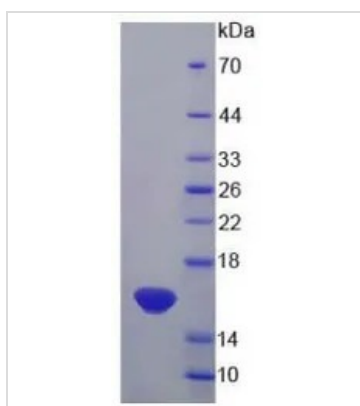
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DATA IMAGES



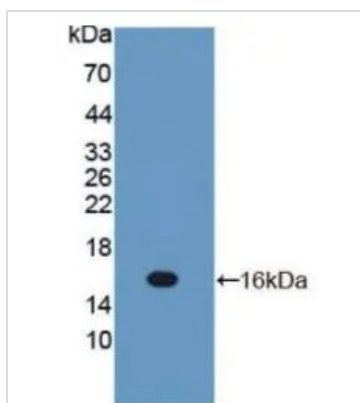
GTX00368-pro Functional Assay Image

Functional ELISA analysis of GTX00368-pro Rat IL13 protein which can bind immobilized IL13Ra1 protein.



GTX00368-pro Image

SDS-PAGE analysis of GTX00368-pro Rat IL13 protein.



GTX00368-pro Image

WB analysis of GTX00368-pro Rat IL13 protein.



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