

## Human IL1 Receptor antagonist protein, His tag

Cat. No. GTX00277-pro

**Applications** Functional Assay**Species** Human**Package**

10 µg

## Applications

## Application Note

IL-1RA is an agent that binds non-productively to the cell surface interleukin-1 receptor (IL-1R), the same receptor that binds interleukin 1 (IL-1), preventing IL-1 from sending a signal to that cell. Besides, Interleukin 1 Alpha (IL-1a) has been identified as an interactor of IL-1RA, thus a binding ELISA assay was conducted to detect the interaction of recombinant human IL-1RA and recombinant human IL-1a. Briefly, IL1RA were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to IL-1a-coated microtiter wells and incubated for 2 h at 37°C. Wells were washed with PBST and incubated for 1 h with anti-IL-1RA 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 IL-1RA and IL-1a was in a dose dependent manner.

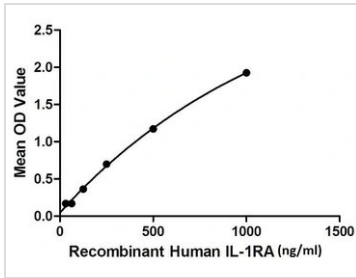
**Observed MW (kDa)** 22/25/27 kDa.

## Properties

**Form** Lyophilized powder**Buffer** Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM 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; Arg26~Glu177 (NP\_000568.1)**Expression System** HEK293 cells**Purity** > 95%**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.

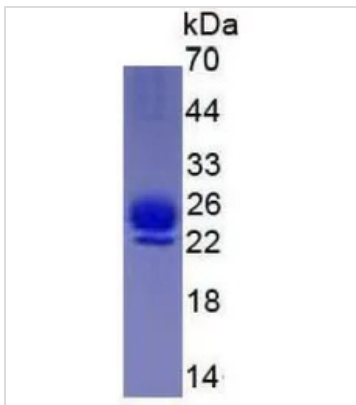
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## DATA IMAGES



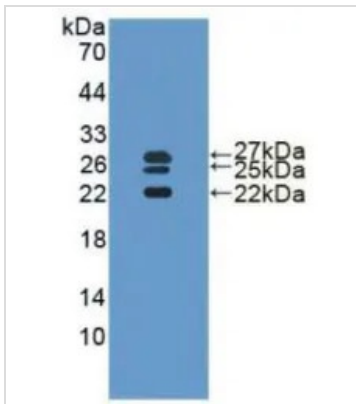
### GTX00277-pro Functional Assay Image

Functional ELISA analysis of GTX00277-pro Human IL1 Receptor antagonist protein which can bind immobilized IL-1 alpha protein.



### GTX00277-pro Image

SDS-PAGE analysis of GTX00277-pro Human IL1 Receptor antagonist protein.



### GTX00277-pro Image

WB analysis of GTX00277-pro Human IL1 Receptor antagonist protein.



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