

Please note: This document was created automatically and is not a substitute for the manufacturer's original document.

Product Datasheet

Rat IL1 Receptor 1 protein, His tag, Unconjugated GTX00051-PRO

| | |
|----------------------------|---|
| Article Name | Rat IL1 Receptor 1 protein, His tag, Unconjugated |
| Biozol Catalog Number | GTX00051-PRO |
| Supplier Catalog Number | GTX00051-pro |
| Alternative Catalog Number | GTX00051-PRO-10 |
| Manufacturer | GeneTex |
| Category | Proteine/Peptide |
| Application | FA |
| Species Reactivity | Rat |
| Conjugation | Unconjugated |
| NCBI | 25663 |
| UniProt | Q02955 |
| 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, ProClin 300. |
| Expression System | E. coli |
| Form | Lyophilized powder |
| Sequence | N-terminal His-Tag, Thr119~Tyr217 |

| | |
|-------------------|--|
| Application Notes | <p>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 100 µl were then transferred to IL1B-coated microtiter wells and incubated for 2h at 37C. 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 solution, wells were incubated 15-25 minutes at 37C. Finally, add 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of IL1R1 with IL1B was in a dose dependent manner.</p> |
|-------------------|--|