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Product Datasheet

Human IL1 Receptor 1 protein, His tag, Unconjugated GTX00091-PRO

Article Name	Human IL1 Receptor 1 protein, His tag, Unconjugated
Biozol Catalog Number	GTX00091-PRO
Supplier Catalog Number	GTX00091-pro
Alternative Catalog Number	GTX00091-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	3554
UniProt	P14778
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, Asp21~Ile109 (NP_000868.1)

Application Notes	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). Thus, a binding ELISA assay was conducted to detect the association of IL1R1 with IL1a. Briefly, IL1R1 were diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to IL1a-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 IL1a was in a dose dependent manner.
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