

Interleukin 1 Receptor Type I (IL1R1) Active Protein | IL1R1 active protein

Active Interleukin 1 Receptor Type I (IL1R1)

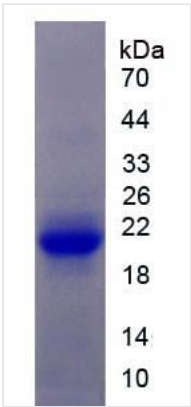
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA148237	E Coli	Rat	Activity Assay, Cell Culture

PRODUCT SYNONYMS

Interleukin 1 Receptor Type I (IL1R1); Active Interleukin 1 Receptor Type I (IL1R1); CD121a; CD121-A; IL1-R1; IL1R; IL1RA; P80; CD121 Antigen-Like Family Member A; Interleukin-1 Receptor Alpha; IL1R1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Rat
Purity/Purification	> 97%
Form/Format	Freeze-dried powder
Sequence Length	2187
Applicable Applications for IL1R1 active protein	Activity Assay, Cell Culture
Tag	N-terminal His Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Fragment	Asp386~Tyr553
Isoelectric Point	6.2



SDS-PAGE

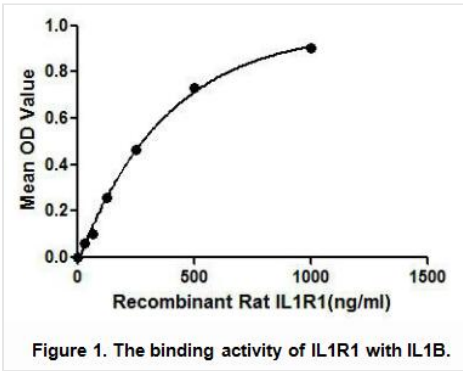


Figure 1. The binding activity of IL1R1 with IL1B.

Activity
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 100uL were then transferred to IL1B-coated microtiter wells and incubated for 2h at 37 degree C. 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 37 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of IL1R1 with IL1B was shown in Figure 1 and this effect was in a dose dependent manner.

ADDITIONAL INFORMATION

Product Categories/Family for IL1R1 active protein	Signal transduction; CD & Adhesion molecule; Infection immunity
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NCBI AND UNIPROT INFORMATION

NCBI GI #	451305
NCBI GeneID	25663
UniProt Accession #	M95578; Q02955
Molecular Weight	Predicted Molecular Weight: 20.8kDa Accurate Molecular Weight: 21kDa
NCBI Official Full Name	Rattus notvegicus Sprague-Dawley interleukin-1 receptor type I mRNA, complete cds
NCBI Official Synonym Full Names	interleukin 1 receptor type 1
NCBI Official Symbol	Il1r1
NCBI Protein Information	interleukin-1 receptor type 1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-rat-active-protein/interleukin-1-receptor-type-i-il1r1/148237>