

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

Active Interleukin 1 Receptor Type I (IL1R1)

CATALOG # AAA148134	REACTIVITY Human	APPLICATIONS Activity Assay, Cell Culture
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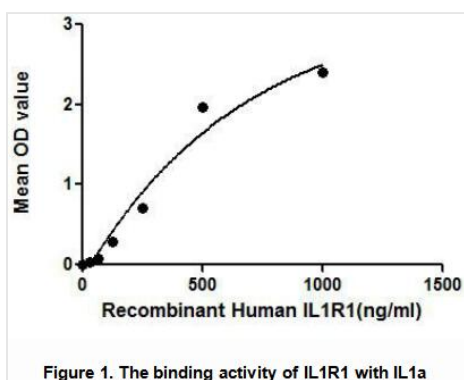
PRODUCT SYNONYMS

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

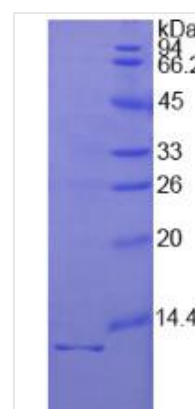
PRODUCT SPECIFICATIONS

Reactivity	Human
Purity/Purification	> 95%
Form/Format	Freeze-dried powder
Sequence Length	569
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	Asp21~Ile109
Isoelectric Point	7.8

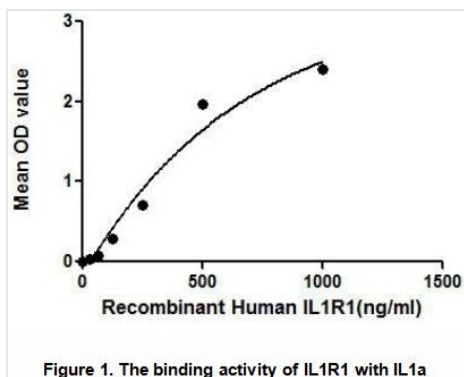
IMAGES



Application Data



SDS-PAGE



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). 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 100uL were then transferred to IL1a-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 IL1a 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

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504659
NCBI GeneID	3554
NCBI Accession #	NP_000868.1
NCBI GenBank Nucleotide #	NM_000877.3
UniProt Accession #	P14778; Q587I7
Molecular Weight	Predicted Molecular Weight: 11.6kDa Accurate Molecular Weight: 14kDa
NCBI Official Full Name	interleukin-1 receptor type 1 isoform 1
NCBI Official Synonym Full Names	interleukin 1 receptor type 1
NCBI Official Symbol	IL1R1
NCBI Official Synonym Symbols	P80; IL1R; IL1RA; CD121A; D2S1473; IL-1R-alpha
NCBI Protein Information	interleukin-1 receptor type 1
UniProt Protein Name	Interleukin-1 receptor type 1
UniProt Gene Name	IL1R1
UniProt Synonym Gene Names	IL1R; IL1RA; IL1RT1; IL-1R-1; IL-1RT-1; IL-1RT1; IL-1R-alpha; mL-1R1; mL-1RI; sIL-1R1; sIL-1RI

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.