

Interleukin 1 Receptor Antagonist (IL1RA) Active Protein | IL1RA active protein

Active Interleukin 1 Receptor Antagonist (IL1RA)

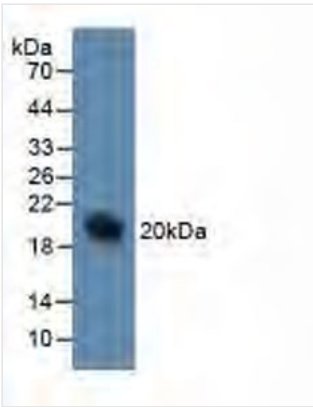
CATALOG # AAA148230	HOST E. coli	APPLICATIONS Invitro Assay, Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Interleukin 1 Receptor Antagonist (IL1RA); Active Interleukin 1 Receptor Antagonist (IL1RA); IL1RN; IL1-RA; ICIL1RA; IL1ra3; IL1F3; IRAP; IL-1RA; Interleukin-1 Family Member 3; IL1 inhibitor; Anakinra; IL1RA active protein

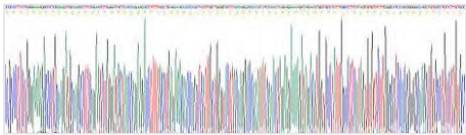
PRODUCT SPECIFICATIONS

Host	E. coli
Purity/Purification	>95%
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 0.05% sarcosyl and 5% trehalose.
Applicable Applications for IL1RA active protein	Invitro Assay, Activity Assay, Cell Culture
Organism Species	Mus musculus (Mouse)
Source	Prokaryotic expression.
Residues	Arg27~Gln178
Tags	N-terminal His-tag
Predicted isoelectric point	8.5
Usage	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



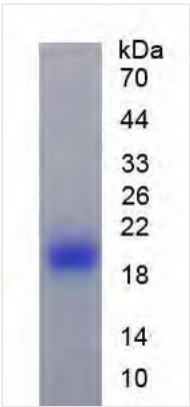
WB (Western Blot)

Figure 4. Western BlotSample: Recombinant IL1RA, Mouse; Antibody: Rabbit Anti-Mouse IL1RA Ab



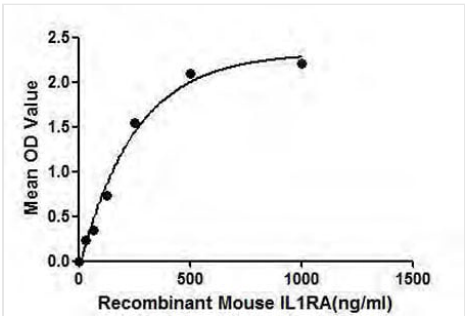
Identification

Figure 2. Gene Sequencing (extract)



SDS_PAGE

Figure 3. SDS-PAGESample: Active recombinant IL1RA, Mouse



Bioactivity

IL1RA (interleukin-1 receptor antagonist) is an agent that binds to the cell surface interleukin-1 receptor (IL-1R), which would prevent IL-1 from intracellular signal transduction. Besides, mouse IL1R1 and rat IL1R1 share similarities in amino acid sequence with the identity of 85.6%. Thus, a binding ELISA assay was constructed to detect the association of recombinant mouse IL1RA with recombinant rat IL1R1. Briefly, IL1RA were diluted serially in PBS with 0.1% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to IL1R1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-IL1RA 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 50AL stop solution to the wells and read at 450nm immediately. The binding activity of IL1RA with IL1R1 was shown in Figure 1 and this effect was in a dose dependent manner. Figure 1. The binding activity of IL1RA with IL1R1.

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RPSG KRPCMKQAFR IWDINQKTFY
LRNNQLIAGY LQGPNIKLEE KIDMVPIDLH SVFLGIHGK LCLSCAKSGD
DIKLQLEEVN ITOLSKNKEE DKRFTFIRSE KGPTTSFESA ACPGWFLCTT
LEADRPVSLT NTPPEELIVT KFYFQEDQ
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Sequence

ADDITIONAL INFORMATION

Product Categories/Family for IL1RA active protein	Cytokine; Signal transduction; Infection immunity
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NCBI AND UNIPROT INFORMATION

NCBI GI #	89257344
NCBI GeneID	16181
NCBI Accession #	NP_001034790.1
NCBI GenBank Nucleotide #	NM_001039701.3

UniProt Accession #	P25085; O70207
Molecular Weight	Predicted Molecular Mass: 18.4kDa Accurate Molecular Mass: 20kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	interleukin-1 receptor antagonist protein isoform 2
NCBI Official Synonym Full Names	interleukin 1 receptor antagonist
NCBI Official Symbol	IL1rn
NCBI Official Synonym Symbols	IL-1ra; F630041P17Rik
NCBI Protein Information	interleukin-1 receptor antagonist protein
UniProt Protein Name	Interleukin-1 receptor antagonist protein
UniProt Gene Name	IL1rn
UniProt Synonym Gene Names	IL-1ra; IL-1RN; IL-1ra; IRAP

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/interleukin-1-receptor-antagonist-il1ra/148230>