

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

Active Interleukin 1 Receptor Antagonist (IL1RA)

CATALOG # AAA148229	HOST E. coli	REACTIVITY Homo sapiens (Human)	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

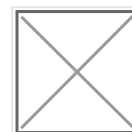
PRODUCT SPECIFICATIONS

Host	E. coli
Reactivity	Homo sapiens (Human)
Purity/Purification	>95%
Form/Format	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.
Concentration	Original Concentration: 1000ug/mL (varies by lot)
Applicable Applications for IL1RA active protein	Invitro Assay, Activity Assay, Cell Culture
Source	Prokaryotic expression.
Residues	Arg26~Glu177
Tags	N-terminal His-tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method).
Predicted isoelectric point	6.0
Usage	Reconstitute in 10mM PBS (pH7.4) 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 degree C for one month. Aliquot and store at -80 degree 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 degree 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.

IMAGES


WB (Western Blot)

Sample: Recombinant IL1RA, Human;Antibody: Rabbit Anti-Human IL1RA Ab


SDS_PAGE

Sample: Active recombinant IL1RA, Human



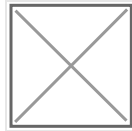
Gene Sequencing

Gene Sequencing (extract)



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. Thus, a binding ELISA assay was constructed to detect the association of recombinant human IL1RA with recombinant human 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 degree 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 degree C. Finally, add 50uL 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.



Sequence

ADDITIONAL INFORMATION

Product Categories/Family for IL1RA active protein

Cytokine; Signal transduction; Infection immunity

NCBI AND UNIPROT INFORMATION

NCBI GI #	10835147
NCBI GeneID	3557
NCBI Accession #	NP_000568.1
NCBI GenBank Nucleotide #	NM_000577.4
UniProt Accession #	P18510; Q14628; Q53SC2; Q7RTZ4; Q96GD6; Q9UPC0; A8K4G1
Molecular Weight	Predicted Molecular Mass: 18.4kDa Accurate Molecular Mass: 18kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	interleukin-1 receptor antagonist protein isoform 3
NCBI Official Synonym Full Names	interleukin 1 receptor antagonist
NCBI Official Symbol	IL1RN
NCBI Official Synonym Symbols	DIRA; IRAP; IL1F3; IL1RA; MVCD4; IL-1RN; IL-1ra; IL-1ra3; ICIL-1RA
NCBI Protein Information	interleukin-1 receptor antagonist protein
UniProt Protein Name	Interleukin-1 receptor antagonist protein
UniProt Gene Name	IL1RN
UniProt Synonym Gene Names	IL1F3; IL1RA; 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-homo-sapiens-human-active-protein/interleukin-1-receptor-antagonist-il1ra/148229>