

Active Recombinant Human IL1RAP, Fc-tagged, Biotinylated

Cat. No. IL1RAP-628H Lot. No. (See product label)

SPECIFICATION

Product Overview The recombinant human IL1RAP ECD is expressed as a 585 amino acid protein consisting of Ser21 - -Thr367 region of IL1RAP (UniProt accession #Q9NPH3) and a C-terminal Fc from human IgG1, which exists as a dimer under non-reducing conditions.

Species Human

Source Human Cells

ProteinLength 21-367 a.a.

Form Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier free & preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).

Bio-activity Binds human IL1 as well as IL1R1 and IL1R2, and blocks IL1-dependent signaling activity with a typical ED50 of 0.5 - 2.5 µg/ml.

Molecular Mass Calculated molecular mass (kDa): 66.5; Estimated by SDS-PAGE under reducing condition (kDa): 75-80 (probably due to glycosylation).

AA Sequence
 SERCDDWGLDTMRQIQVFEDEPARIKCPLFEHFLKFNYSTAHSAGLTLIWYWTRQD
 RDLEEPINFRLPENRISK EKDVLWFRPTLLNDTGNYTCMLRNTTYCSKVAFPLEVVQ
 KDSCFNSPMKLPVHKLYIEYGIQRITCPNVDGYFP SSVKPTITWYMGCYKIQNFNNVI
 PEGMNLNFLIALISNNGNYTCVVTPENGRTFHLTRTLTVKVVGSPKNAV PVIHSP
 NDHVVYEKEPGEELLIPCTVYFSFLMDSRNEVWWTIDGKKPDDITIDVTINESISHSRT

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EDETRQIL SIKKVTSEDLKRSYVCHARSAKGEVAKAAKVQKVPAPRYTVELACGF
 GATSTTENLYFQGSGTGHTCPCPAP ELLGGPSVFLFPPKPKDTLMISRTPEVTCVV
 VDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVL TVLHQDWLNGK
 EYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYP
 SDIAVE WESNGQPENNYKTTTPVLDSGSSFLYSKLTVDKSRWQQGNVFCSSVMH
 EALHNHYTQKSLSLSPGK

Endotoxin

<0.1 eu="" per="" 1="" μg="" of="" purified="" recombinant="" protein=""
 determined="" by="" the="" lal="">

Purity

>95% judged by SDS-PAGE under reducing condition

Storage

The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below -20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.

Conjugation

Biotin

GENE INFORMATION

Gene Name

IL1RAP interleukin 1 receptor accessory protein [Homo sapiens]

Official Symbol

IL1RAP

Synonyms

IL1RAP; interleukin 1 receptor accessory protein; interleukin-1 receptor accessory protein; C3orf13; IL 1RAcP; IL1R3; IL-1R3; interleukin-1 receptor 3; IL-1 receptor accessory protein; interleukin-1 receptor accessory protein beta; IL-1RAcP; FLJ37788;

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Gene ID	3556
mRNA Refseq	NM_001167928
Protein Refseq	NP_001161400
MIM	602626
UniProt ID	Q9NPH3
Chromosome Location	3q28
Pathway	Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; IL-1 Signaling Pathway, organism-specific biosystem; Immune System, organism-specific biosystem;
Function	interleukin-1 receptor activity; receptor activity; signal transducer activity; transmembrane signaling receptor activity;

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