Genomeditech (Shanghai) Co.,Ltd.
Order: 021-68455258/50432826/50432825

Toll-free: 400 627 9288

Email: service@genomeditech.com

Human IL-1RAP Protein; His Tag

Product Information

Product Name Human IL-1RAP Protein; His Tag

Storage temp Store at \leq -70°C, stable for 6 months after receipt.

Recommend to aliquot the protein into smaller quantities for

optimal storage. Please minimize freeze-thaw cycles.

Catalog# / Size GM-88257RP-100 / 100 μg

GM-88257RP-1000 / 1 mg

Protein Information

Alternative Names IL1RAP, IL-1RAcP, C3orf13, IL1R3

Source Human IL-1RAP Protein; His Tag (GM-88257RP) is expressed from human 293

cells (HEK-293). It contains AA Ser 21 - Glu 359 (Accession # Q9NPH3-1).

This protein carries a His tag at the C-terminus.

Purity > 90% as determined by SDS-PAGE

Endotoxin < 1 EU/μg, determined by LAL gel clotting assay

Predicted Mol Mass 41.1 KDa

Formulation Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.

Description IL1RAP is a type I transmembrane protein in the IL-1 receptor superfamily. It is

widely expressed, especially in immune-related cells like macrophages, dendritic cells, and endothelial cells. As a co-receptor with IL-1R1, IL1RAP forms a high-affinity receptor complex to propagate IL-1-mediated signals. It has an extracellular ligand-binding domain, a single transmembrane helix, and a cytoplasmic tail that recruits MyD88 to trigger downstream signaling. Functionally, IL1RAP amplifies IL-1β/IL-1α signaling, linking to inflammation,

immune activation, and fever.

IL1RAP participates in the canonical MyD88-dependent IL-1 signaling. IL- 1β /IL- 1α binding to IL-1R1 promotes the receptor–ligand–co-receptor complex, enabling MyD88 recruitment. This activates IRAK4/IRAK1, propagating via TRAF6 to TAK1, which then activates IKK and MAPKs. This leads to IkB α degradation, NF- κ B nuclear translocation, and MAPK phosphorylation (p38, JNK, ERK), driving transcription of pro-inflammatory cytokines (e.g., IL-6, IL-8, TNF- α). IL1RAP can also engage in cross-talk with other pathways (e.g., TLR signaling) to modulate inflammation and tissue repair. Overall, IL1RAP enhances

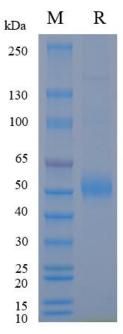
IL-1 signaling and supports immune surveillance and homeostasis.

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SDS-PAGE

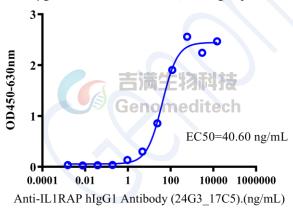


On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA

Bioactivity-ELISA

0.2 µg Human IL-1RAP Protein; His Tag of per well



Human IL-1RAP Protein; His Tag (Catalog # GM-88257RP) was immobilized at 2 μ g/ml (100 μ L/well). Increasing concentrations of Anti-IL1RAP hIgG1 Antibody (24G3_17C5) (Catalog # GM-88261AB) were added.