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

Toll-free: 400 627 9288

Email: service@genomeditech.com

Human IL-18R beta Protein; hFc Tag

Product Information

Product Name Human IL-18R beta Protein; hFc 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-88314RP-100 / 100 μg

GM-88314RP-1000 / 1 mg

Protein Information

Alternative Names IL-18 R beta, IL-1 R7, CD218b, CDw218b, IL-1 R7, IL18R beta, IL-18RAcP

Source Human IL-18R beta Protein; hFc Tag (GM-88314RP) is expressed from human

293 cells (HEK-293). It contains AA Phe 20 - Arg 356 (Accession # O95256-1).

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

Purity > 95% as determined by SDS-PAGE

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

Predicted Mol Mass 64.4 KDa

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

 $\textbf{Description} \hspace{1.5cm} \textbf{Interleukin-18 receptor beta (IL-18R\beta) is a transmembrane subunit that forms part} \\$

of the IL-18 receptor complex. IL-18R β pairs with IL-18 receptor alpha (IL-18R α) to create a high-affinity receptor for interleukin-18 (IL-18), a proinflammatory cytokine produced by macrophages and other cells. The IL-18-IL-18R α -IL-18R β complex initiates signaling that links innate and adaptive immune responses, contributing to the production of interferon-gamma (IFN- γ) and the

activation of T cells and natural killer (NK) cells.

Upon IL-18 binding, IL-18R α and IL-18R β recruit adaptor proteins, notably MyD88, which activates downstream pathways including the NF- κ B and MAPK cascades. This leads to transcription of inflammatory genes (e.g., IFN- γ , TNF- α) and enhanced cytotoxic and macrophage responses. The IL-18/IL-18R system plays a key role in defenses against intracellular pathogens but can contribute to chronic inflammatory diseases when dysregulated; thus, it is a potential target for

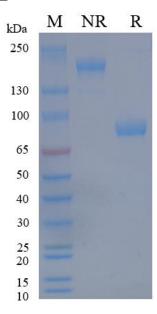
therapeutic modulation in autoimmune and inflammatory conditions.

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SDS-PAGE

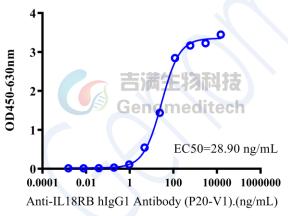


On SDS-PAGE under nun-reducing (NR) condition and reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA

Bioactivity-ELISA

0.2 µg Human IL-18R beta Protein; hFc Tag of per well



Human IL-18R beta Protein; hFc Tag (Catalog # GM-88314RP) was immobilized at 2 μ g/ml (100 μ L/well). Increasing concentrations of Anti-IL18RB hIgG1 Antibody (P20-V1) (Catalog # GM-88328AB) were added.