

Mouse IL-22RA1 Protein; His Tag

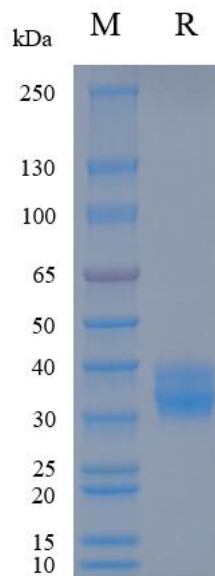
Product Information

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|------------------------|---|
| Product Name | Mouse IL-22RA1 Protein; His Tag |
| Storage temp | Store at $\leq -70^{\circ}\text{C}$, 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-88086RP-100 / 100 μg GM-88086RP-1000 / 1 mg |

Protein Information

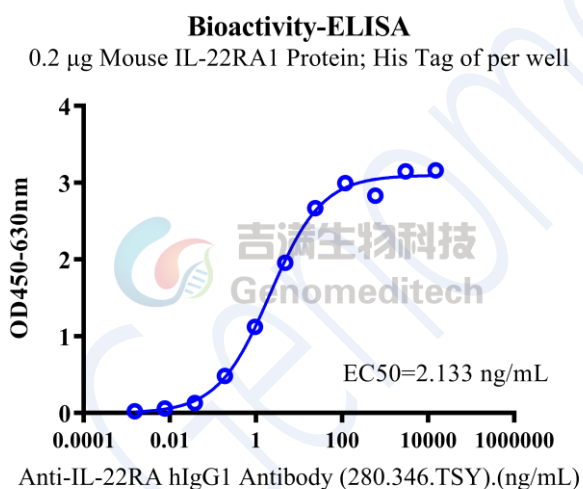
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|---------------------------|---|
| Alternative Names | IL-22R-alpha-1, IL-22RA1, CRF2-9, ZcytoR11, IL22RA1, IL22R |
| Source | Mouse IL-22RA1 Protein; His Tag (GM-88086RP) is expressed from human 293 cells (HEK-293). It contains AA His 16 – Ala 228 (Accession # Q80XZ4). This protein carries a His 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 | 25.1 KDa |
| Formulation | Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4. |
| Description | IL22RA1 (Interleukin-22 receptor subunit alpha-1) is a transmembrane receptor protein belonging to the IL-10 cytokine receptor family. It forms a dimeric receptor with IL-22, typically assembling with IL-10R2 to create a functional receptor complex that activates the JAK-STAT pathway, especially the STAT3 axis. IL22RA1 is widely expressed in epithelial tissues (skin, intestine, respiratory tract, lacrimal glands) and plays a key role in maintaining the mucosal barrier, tissue repair, and inflammatory responses. Upon binding IL-22, IL22RA1 promotes epithelial cell proliferation, differentiation, and regeneration, and enhances mucosal barrier integrity and antimicrobial defense. On mucosal surfaces such as the gut and skin, the IL-22/IL22RA1 axis regulates protective responses, promotes epithelial regeneration, and modulates inflammatory signaling. Dysregulation of the IL-22/IL22RA1 axis is associated with inflammatory bowel disease, psoriasis, chronic inflammatory skin conditions, and certain infections. |

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 95%.

Bioactivity-ELISA



Mouse IL-22RA1 Protein; His Tag (Catalog # GM-88086RP) was immobilized at 2 μ g/ml (100 μ L/well). Increasing concentrations of Anti-IL-22RA hIgG1 Antibody (280.346.TSY) (Catalog # GM-88095AB) were added.