

Anti-Mouse IL-4RA mIgG1 Antibody (REGN1103)

Product information

GM-88068AB-10	10 µg
GM-88068AB-100	100 µg
GM-88068AB-1000	1 mg

Antibody Information

Species Reactivity	Mouse
Clone	REGN1103
Source/Isotype	Monoclonal Mouse IgG1 Kappa
Application	Bioactivity-ELISA; Flow cytometry
Target	Detects IL-4R
Gene	IL-4RA
Other Names	CD124, IL-4R
Gene ID	16190 (Mouse)
Background	IL-4ra (Interleukin-4 Receptor Alpha) is an important member of the Interleukin-4 Cytokine Receptor family. IL-4RA binds to the γ c chain (common γ chain) to form a high-affinity receptor for IL-4, mediating IL-4 signaling; binds to IL-13R α 1 to form a functional receptor for IL-13, mediating IL-13 signaling. By binding to IL-4 or IL-13, IL-4RA activates the JAK-STAT6 pathway (Janus kinase-signal transducer and activator of transcription 6), regulates downstream gene expression, and regulates the expression of downstream genes, participate in B cell proliferation and differentiation (such as IgE class switching), Th2 type immune response (L-lymphocyte T cell type 2 response), epithelial cell activation and other processes. IL-4RA receptor plays an important role in regulating humoral immunity (such as antibody production) and cellular immunity (such as T cell activation), and is closely related to allergic reactions, asthma, and some autoimmune diseases.
Storage	Store at 2-8°C short term (1-2 weeks). Store at $\leq -20^{\circ}\text{C}$ long term. Avoid repeated freeze-thaw.
Formulation	Phosphate-buffered solution, pH 7.2-7.4.
Endotoxin	< 1 EU/mg, determined by LAL gel clotting assay

Version:3.1

Data Examples

Bioactivity-ELISA

Mouse IL-4R alpha Protein; His Tag (Catalog # GM-87882RP) was immobilized at 5 µg/ml (100 µL/well). Increasing concentrations of Anti-Mouse IL-4RA mIgG1 Antibody(REGN1103) (Catalog # GM-88068AB) were added.

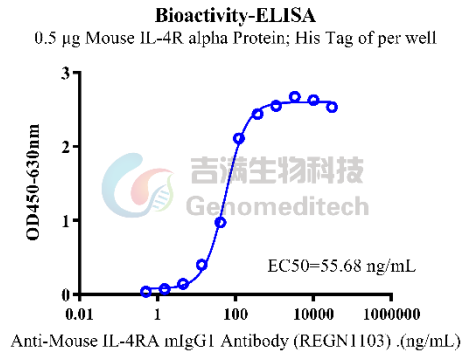


Fig. Assay

Flow cytometry

Mouse_IL4R CHO-K1 Cell Line (Catalog # GM-C01562) was stained with Anti-Mouse IL-4RA mIgG1 Antibody(REGN1103) (Catalog # GM-88068AB) or isotype control antibody, followed by anti-Mouse IgG APC-conjugated Secondary Antibody.

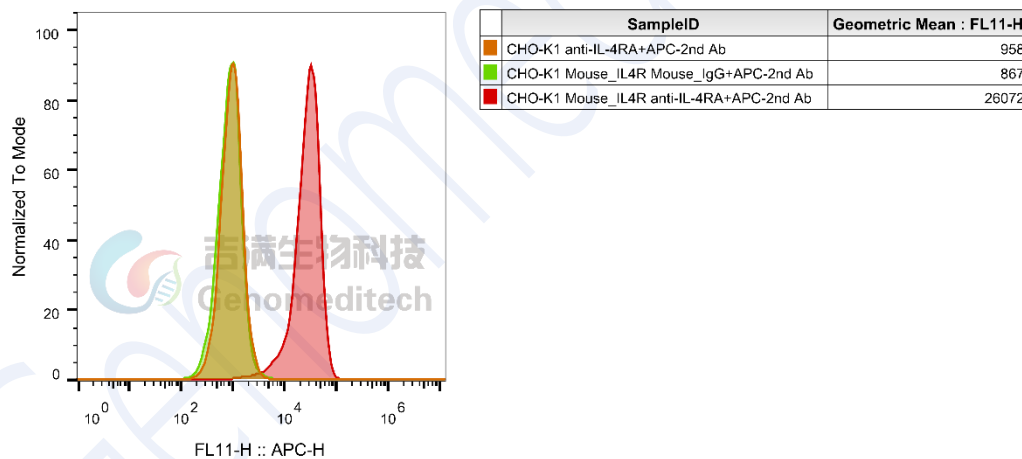


Fig . FACS