

Anti-IL4R hlgG4 Antibody(Dupilumab)

Product information

GM-53165AB-10	10 µg
GM-53165AB-100	100 µg
GM-53165AB-1000	1 mg

Antibody Information

Species Reactivity	Human; Cynomolgus
Clone	Dupilumab
Source/Isotype	Monoclonal Human hlgG4 /k
Application	Flow cytometry ;Block assay; Bioactivity-ELISA
Specificity	Detects IL4R.
Gene	IL4R
Other Names	CD124; IL4RA; IL-4RA
Gene ID	3566(human); 102133649(Cynomolgus)
Background	<p>The interleukin 4 receptor is a type I cytokine receptor. This gene encodes the alpha chain of the interleukin-4 receptor, a type I transmembrane protein that can bind interleukin 4 and interleukin 13 to regulate IgE antibody production in B cells. Among T cells, the encoded protein also can bind interleukin 4 to promote differentiation of Th2 cells. A soluble form of the encoded protein can be produced by an alternate splice variant or by proteolysis of the membrane-bound protein, and this soluble form can inhibit IL4-mediated cell proliferation and IL5 upregulation by T-cells. Allelic variations in this gene have been associated with atopy, a condition that can manifest itself as allergic rhinitis, sinusitis, asthma, or eczema. Two transcript variants encoding different isoforms, a membrane-bound and a soluble form, have been found for this gene.</p>
Storage	Store at 2-8°C short term (1-2 weeks).Store at ≤ -20°C long term.Avoid repeated freeze-thaw.
Formulation	Phosphate-buffered solution, pH 7.2.
Endotoxin	< 1 EU/mg, determined by LAL gel clotting assay

Version:3.3

Data Examples

Flow cytometry

H_IL4R CHO-K1 Cell Line (Catalog # GM-C01521) was stained with Anti-IL4R hlgG4 Antibody(Dupilumab)(Catalog # GM-53165AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.

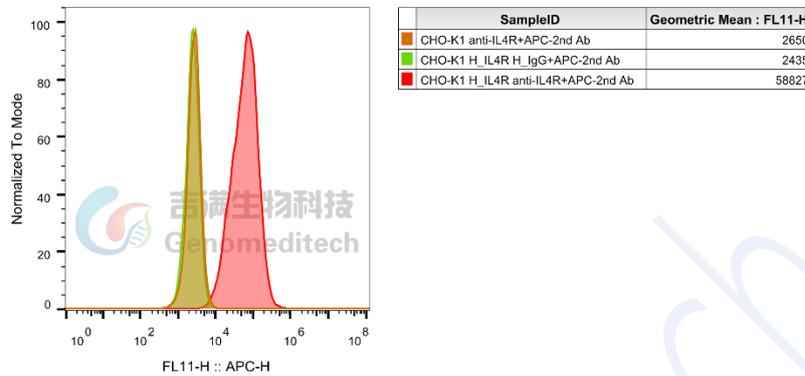


Fig. FACS

Flow cytometry

Cynomolgus_IL4R CHO-K1 Cell Line (Catalog # GM-C37167) was stained with Anti-IL4R hlgG4 Antibody(Dupilumab)(Catalog # GM-53165AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.

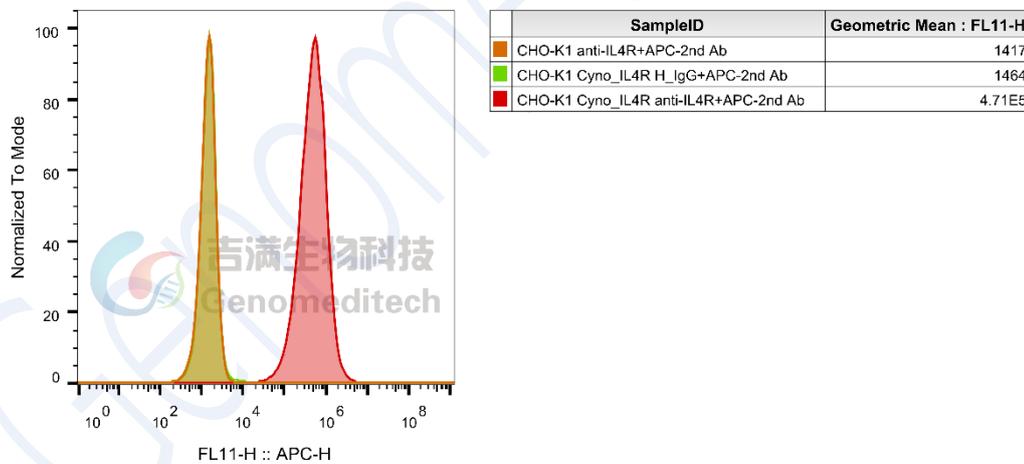


Fig. FACS

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Block assay

Anti-IL4R hlgG4 Antibody (Catalog # GM-53165AB) inhibits IL-4 Reporter Cell Line (Catalog # GM-C26301) Luminescence induced by Recombinant Human IL-4. IC50 for this effect is 0.2816 $\mu\text{g/mL}$.

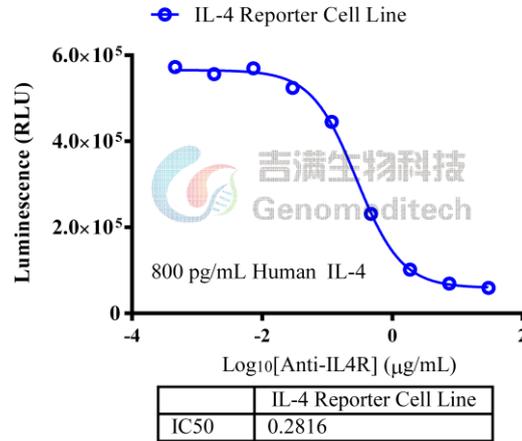


Fig. assay

Bioactivity-ELISA

Human IL-4R alpha Protein; mFc Tag (Catalog # GM-87879RP) was immobilized at 5 $\mu\text{g/ml}$ (100 $\mu\text{L/well}$). Increasing concentrations of Anti-IL4R hlgG4 Antibody (Dupilumab) (Catalog # GM-53165AB) were added.

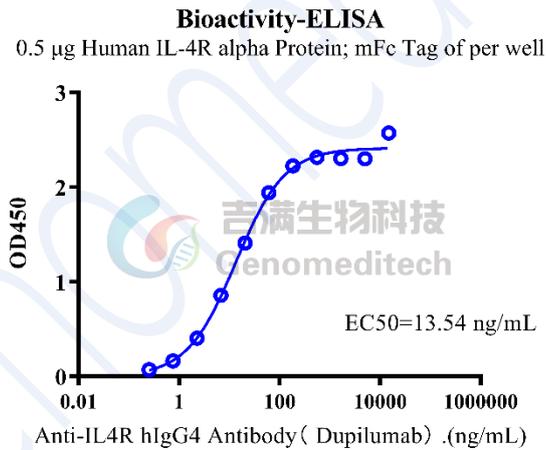


Fig. assay

Version:3.3