

Anti-IL-13RA1 hIgG4 Antibody (eblasakimab)

Product information

GM-88181AB-10	10 µg
GM-88181AB-100	100 µg
GM-88181AB-1000	1 mg

Antibody Information

Species Reactivity	Human
Clone	eblasakimab
Source/Isotype	Human IgG4(S228P), Kappa
Application	Bioactivity-ELISA
Target	Detects IL-13RA1
Gene	IL-13RA1
Other Names	IL13RA1, CD213A1, IL-13Ra, NR4, RP13-128O4.2, IL13Rα1
Gene ID	3597 (Human)
Background	IL13RA1 is a component of the type II IL-4 receptor. It is a single-pass transmembrane protein encoded by the IL13RA1 gene and expressed on various cells, including macrophages, dendritic cells, some lymphocytes, and some non-hematopoietic cells. It partners with IL4Rα to form the IL-13 receptor, modulating allergic inflammation, Th2 responses, and tissue remodeling. Dysregulation of IL-13 signaling via IL13RA1 links to atopy and fibrosis. IL-13 binding to the IL13RA1/IL4Rα complex activates JAK-STAT signaling, mainly inducing STAT6 phosphorylation and transcription of IL-4/IL-13-responsive genes. It also engages PI3K-AKT and MAPK pathways, affecting epithelial barrier, mucus production, and chemokine/cytokine expression. Cross-talk with IL-4 can amplify responses. Aberrant IL-13/IL13RA1 signaling is associated with allergic diseases, fibrosis, and inflammation, making this axis a therapeutic target.
Storage	Store at 2-8°C short term (1-2 weeks).Store at ≤ -20°C long term. Avoid repeated freeze-thaw.
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH7.2-7.4.
Endotoxin	< 1 EU/mg, determined by LAL gel clotting assay

Data Examples

Bioactivity-ELISA

Human IL-13RA1 Protein; His Tag (Catalog # GM-88041RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-IL-13RA1 hlgG4 Antibody (eblasakimab) (Catalog # GM-88181AB) were added.

Bioactivity-ELISA

0.2 µg Human IL-13RA1 Protein; His Tag of per well

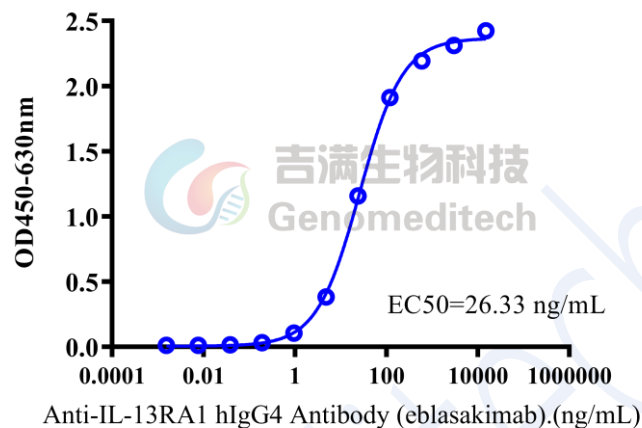


Fig. ELISA

Activation assay

Anti-IL-13RA1 hlgG4 Antibody (eblasakimab) (Catalog # GM-88181AB) inhibits IL-4/IL-13 Reporter 293 Cell Line(Catalog # GM-C01511) Luminescence induced by Mouse IL-13 Protein; His Tag(Catalog # GM-88166RP). IC50 for this effect is 29.27 ng/ml.

IL-4/IL-13 Reporter 293 Cell Line

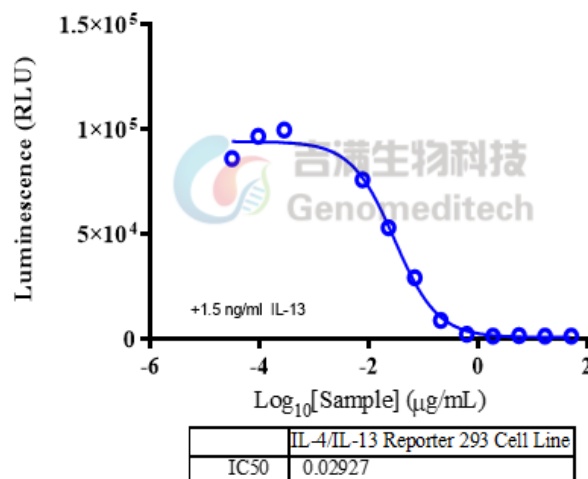


Fig. Assay