

Anti-GM-CSFRA hlgG4 Antibody (Mavrilimumab)

Product information

GM-88545AB-10	10 µg
GM-88545AB-100	100 µg
GM-88545AB-1000	1 mg

Antibody Information

Species Reactivity	Human
Clone	Mavrilimumab
Source/Isotype	Human IgG4, Lambda2
Application	Bioactivity-ELISA
Target	Detects GM-CSFRA
Gene	GM-CSFRA
Other Names	GM-CSF R alpha, CSF2RA, CSF2R, CSF2RY, CDw116, CD116
Gene ID	1438 (Human)
Background	<p>The core research value of anti-GM-CSFRA lies in precisely intervening in the GM-CSF inflammatory axis, positioning it as a critical therapeutic node connecting chronic inflammation and tumor immunity. In the realm of autoimmune diseases, anti-GM-CSFRA can precisely inhibit macrophage activation and the release of inflammatory cytokines by blocking GM-CSF signaling. This approach has demonstrated significant progress in Phase III clinical trials for rheumatoid arthritis.</p> <p>In oncology, this strategy exhibits a dual potential of "direct cytotoxicity" and "immune modulation". On one hand, CAR-T therapies targeting CSF2RA are under clinical investigation for CD116-positive acute myeloid leukemia (AML) and juvenile myelomonocytic leukemia. On the other hand, blocking this pathway can remodel the tumor microenvironment; for instance, in gastric cancer, high CSF2RA expression activates the JAK2/STAT3 pathway to drive progression, making it a promising precision target. Furthermore, anti-GM-CSFRA interventions can control excessive immune responses, showing therapeutic promise in cytokine storms triggered by COVID-19 and offering novel gene therapy approaches for hereditary pulmonary alveolar proteinosis caused by CSF2RA mutations.</p>
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

Version:3.1

Data Examples

Bioactivity-ELISA

Human GM-CSFRA Protein; hFc Tag (Catalog # GM-88386RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-GM-CSFRA hIgG4 Antibody (Mavrimumab) (Catalog # GM-88545AB) were added.

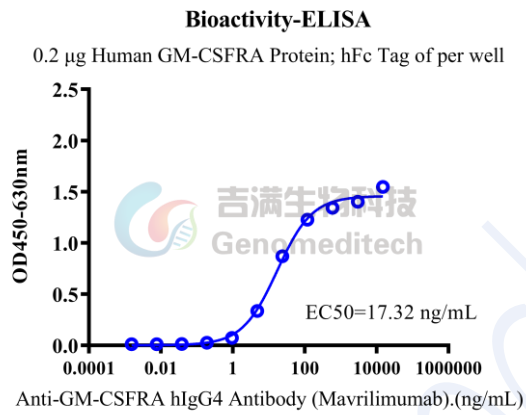


Fig. ELISA