

Anti-IL18 hlgG1 Antibody(CMK389)

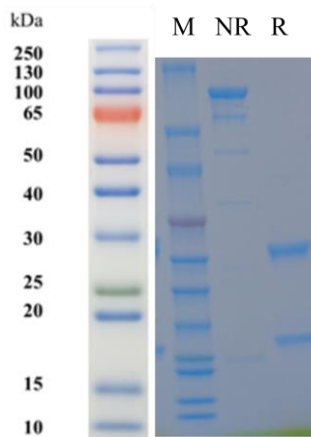
Product information

GM-88326AB-10	10 µg
GM-88326AB-100	100 µg
GM-88326AB-1000	1 mg

Antibody Information

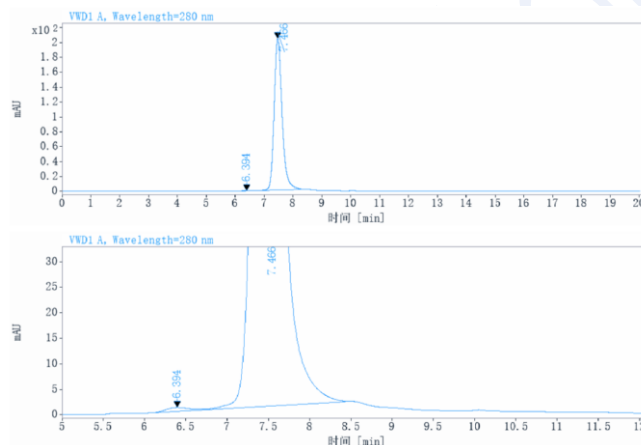
Species Reactivity	Human
Clone	CMK389
Source/Isotype	Human IgG1(K214R,L234A,L235A, D356E,L358M), Kappa
Application	FACS/Assay
Target	Detects IL18
Gene	IL18
Other Names	IGIF, IL-18, IL-1g, IL1F4
Gene ID	3606 (Human)
Background	Interleukin-18 (IL-18) is a pro-inflammatory cytokine that plays a pivotal role in the immune response. It is produced as an inactive precursor and activated by proteolytic processing, enabling it to promote the production of interferon-gamma (IFN-γ) and amplify Th1 immune responses. IL-18 works in concert with IL-12 to enhance natural killer (NK) cell activity and T-cell activation, contributing to defenses against intracellular pathogens. Beyond its protective roles, dysregulated IL-18 signaling has been implicated in inflammatory and autoimmune conditions, making it a target for therapeutic intervention in diseases such as rheumatoid arthritis, inflammatory bowel disease, and metabolic disorders. Owing to its broad involvement in inflammation, IL-18 is studied as both a biomarker of disease activity and a potential candidate for cytokine-modulating therapies.
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

SDS-PAGE



On SDS-PAGE under reducing (R)/non-reducing(N-R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

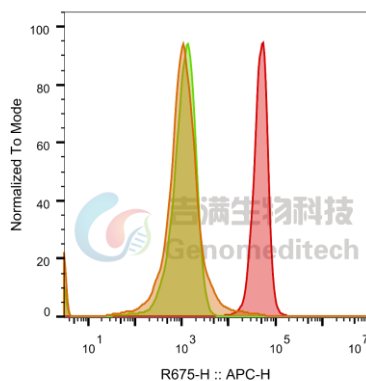
SEC-HPLC



The purity of this product is more than 95% verified by SEC-HPLC.

Flow Cytometry

Membrane Bound H_IL18 HEK-293 Cell Line V1 clone(GM-C46971) was stained with Anti-IL18 hIgG1 Antibody(CMK389) (Genomeditech/GM-88326AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.



SampleID	Geometric Mean : R675-H
HEK-293 anti-IL18+APC-2nd Ab	961
HEK-293 Membrane Bound H_IL18_H_IgG+APC-2nd Ab	1013
HEK-293 Membrane Bound H_IL18 anti-IL18+APC-2nd Ab	47226

Version:3.1

Fig. FACS

Assay

Response to Anti-IL18 hlgG1 Antibody(CMK389). H_IL18 Reporter 293 Cell Line (Cat. GM-C21147) was seeded at a density of 1.5E4 cells per well in a 96-well plate and incubated overnight. The next day, serial dilutions of the Anti-IL18 hlgG1 Antibody(CMK389) (Cat. GM-88326AB) were incubated with 3E3 cells/well of the Membrane Bound H_IL18 HEK-293 Cell Line (Cat. GM-C44217) in a 96-well plate for 10 min, and then added to the pre-seeded cells. The mixture was incubated for an additional 16 hours. Firefly luciferase activity was measured using the Luciferase Reporter Assay Kit (Genomeditech) (left Y-axis, relative luminescence units), with inhibition percentages shown on the right Y-axis. Data are shown by drug mass concentration.

Membrane Bound H_IL18 HEK-293 Cell Line
H_IL18 Reporter 293 Cell Line

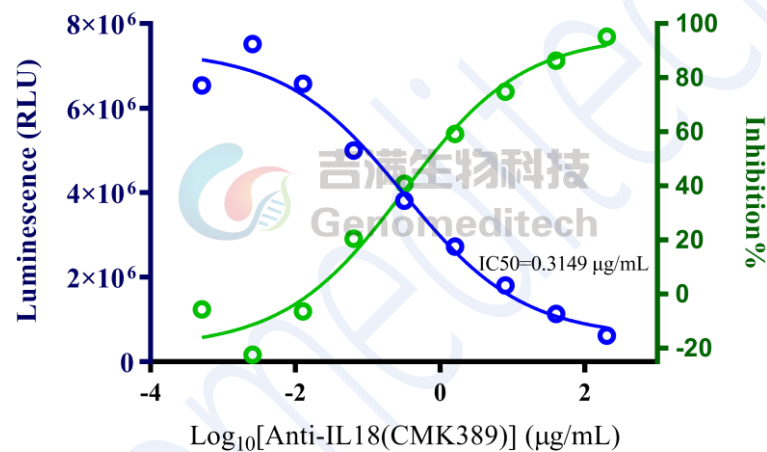


Fig. Assay