Genomeditech (Shanghai) Co.,Ltd.
Order: 021-68455258/50432826/50432825
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Anti-c-Kit(CD117) hIgG1 Antibody(barzolvolimab)

Product information

GM-86542AB-10	10 μg
GM-86542AB-100	100 μg
GM-86542AB-1000	1 mg

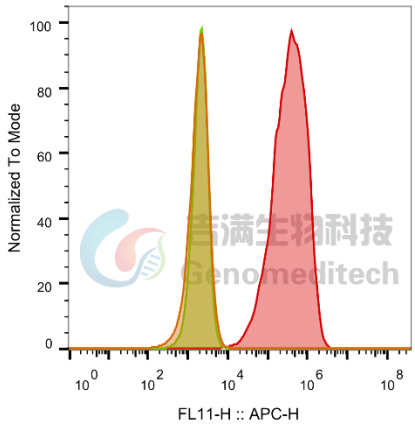
Antibody Information

Species Reactivity	Human; Cynomolgus
Clone	barzolvolimab
Source/Isotype	Monoclonal human IgG1, κ
Application	Flow cytometry; Bioactivity-ELISA；Block assay
Specificity	Detects c-Kit(CD117)
Gene	c-Kit(CD117)
Other Names	C-Kit, CD117, MASTC, PBT, SCFR
Gene ID	3815 (human); 102137242 (Cynomolgus)
Background	c-Kit, also known as CD117, is an important cell surface protein expressed in stem cells and various types of mature cells in humans and other animals. Encoded by the c-Kit gene, the c-Kit protein plays a role in cell proliferation, differentiation, and survival by binding with the cytokine SCF (stem cell factor). Mutations and abnormal expressions of the c-Kit gene have been associated with various diseases including tumors, cardiovascular diseases, and immune system disorders. Research on the c-Kit gene can aid scientists in better understanding its functions in cell biology and pathophysiology, offering new insights for diagnosis and treatment of related diseases.
Storage	Store at 2-8℃ short term (1-2 weeks).Store at ≤ -20℃ long term. Avoid repeated freeze-thaw.
Formulation	Phosphate-buffered solution, pH 7.2.
Endotoxin	< 1 EU/mg, determined by LAL gel clotting assay

Data Examples

Flow cytometry

H_c-Kit(CD117) GNNK(+) CHO-K1 Cell Line (Catalog # GM-C36717) was stained with Anti-c-Kit(CD117) hIgG1 Antibody(barzolvolimab) (Catalog # GM-86542AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.

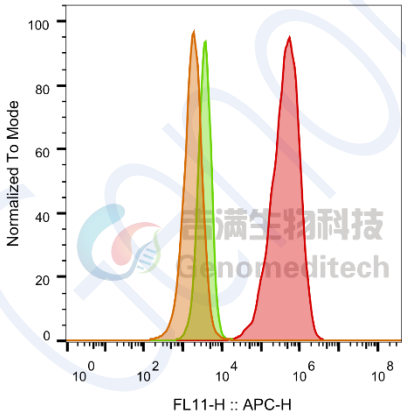


SampleID	Geometric Mean : FL11-H
CHO-K1 anti-CD117+APC-2nd Ab	1841
CHO-K1 H_c-Kit(CD117) GNNK(+) H_IgG+APC-2nd Ab	2038
CHO-K1 H_c-Kit(CD117) GNNK(+) anti-CD117+APC-2nd Ab	339168

Fig. FACS

Flow cytometry

Cynomolgus_c-Kit(CD117) GNNK(-) CHO-K1 Cell Line (Catalog # GM-C36581) was stained with Anti-c-Kit(CD117) hIgG1 Antibody(barzolvolimab) (Catalog # GM-86542AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.

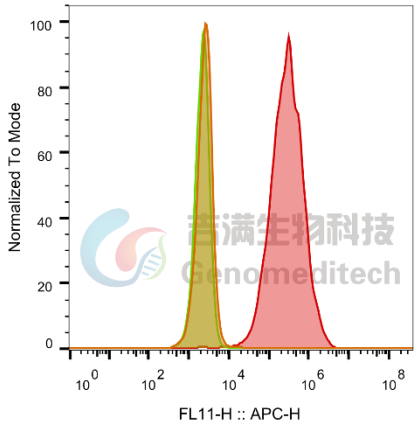


SampleID	Geometric Mean : FL11-H
CHO-K1 anti-CD117+APC-2nd Ab	1772
CHO-K1 Cyno_c-Kit(CD117) GNNK(-) H_IgG+APC-2nd Ab	3624
CHO-K1 Cyno_c-Kit(CD117) GNNK(-) anti-CD117+APC-2nd Ab	4.11E5

Fig. FACS

Flow cytometry

H_c-Kit(CD117) GNNK(-) CHO-K1 Cell Line (Catalog # GM-C36580) was stained with Anti-c-Kit(CD117) hIgG1 Antibody(barzolvolimab) (Catalog # GM-86542AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.

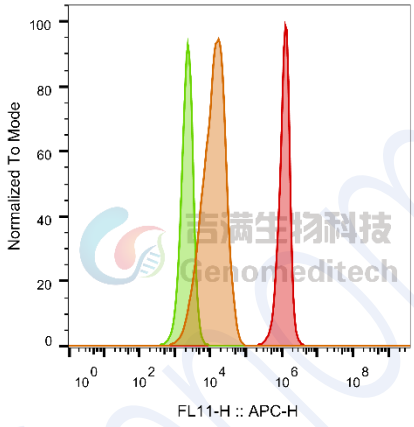


SampleID	Geometric Mean : FL11-H
CHO-K1 anti-CD117+APC-2nd Ab	2570
CHO-K1 H_c-Kit(CD117) GNNK(-) H_IgG+APC-2nd Ab	2196
CHO-K1 H_c-Kit(CD117) GNNK(-) anti-CD117+APC-2nd Ab	274820

Fig. FACS

Flow cytometry

H_c-Kit(CD117) GNNK(-) HEK-293 Cell Line (Catalog # GM-C36579) was stained with Anti-c-Kit(CD117) hIgG1 Antibody(barzolvolimab) (Catalog # GM-86542AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.



SampleID	Geometric Mean : FL11-H
HEK-293 anti-CD117+APC-2nd Ab	12027
HEK-293 H_c-Kit(CD117) GNNK(-) H_IgG+APC-2nd Ab	2212
HEK-293 H_c-Kit(CD117) GNNK(-) anti-CD117+APC-2nd Ab	1.14E6

Fig. FACS

Bioactivity-ELISA

Human c-Kit(CD117) Protein; His Tag (Catalog # GM-87117RP) was immobilized at 2 μg/ml (100 μL/well). Increasing concentrations of Anti-c-Kit(CD117) hIgG1 Antibody(barzolvolimab) (Catalog # GM-86542AB) were added.

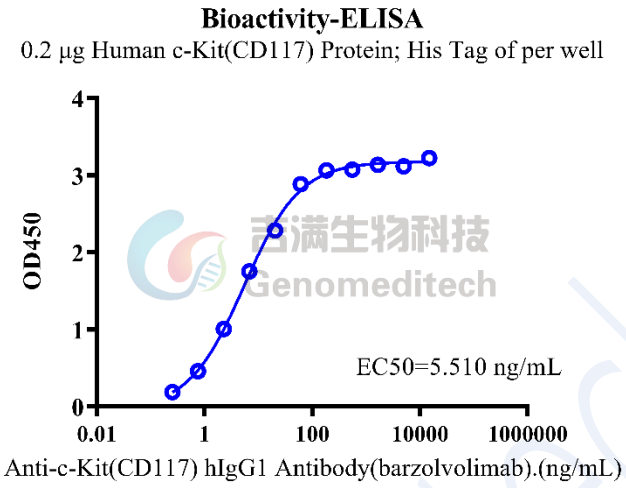


Fig. assay

Bioactivity-ELISA

Cynomolgus c-Kit(CD117) Protein; His Tag (Catalog # GM-87120RP) was immobilized at 2 μg/ml (100 μL/well). Increasing concentrations of Anti-c-Kit(CD117) hIgG1 Antibody(barzolvolimab) (Catalog # GM-86542AB) were added.

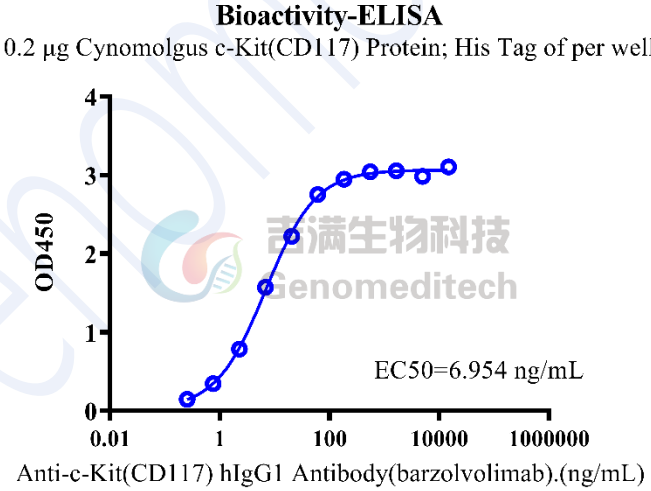


Fig. assay

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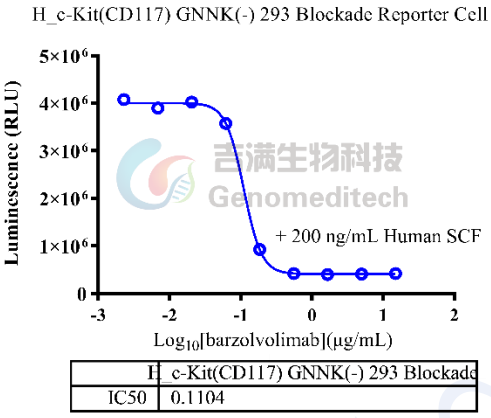
Block assay

Anti-c-Kit(CD117) hIgG1 Antibody(barzolvolimab) (Catalog # GM-86542AB) inhibits H_c-Kit(CD117) GNNK(-) 293 Blockade Reporter Cell Line (Catalog # GM-C37519) Luminescence induced by Human SCF Protein; His Tag (Catalog # GM-87651RP). IC50 for this effect is 0.1104 μg/mL.



	H_c-Kit(CD117) GNNK(-) 293 Blockade
IC50	0.1104

Fig. assay