

Anti-H_NT5E(CD73) hIgG1 Antibody(Oleclumab)

Product information

GM-28674AB-10	10 µg
GM-28674AB-100	100 µg
GM-28674AB-1000	1 mg

Antibody Information

Species Reactivity	Human; Cynomolgus
Clone	Oleclumab
Source/Isotype	Monoclonal Human IgG1 /λ
Application	Flow Cytometry
Specificity	Detects NT5E
Gene	NT5E
Other Names	CALJA, E5NT, NT, NT5, NTE, eN, Ent, CD73
Gene ID	4907 (human); 102114976 (Cynomolgus)
Background	<p>5'-nucleotidase (5'-NT), also known as ecto-5'-nucleotidase or CD73 (cluster of differentiation 73), is an enzyme that in humans is encoded by the NT5E gene. CD73 commonly serves to convert AMP to adenosine. NT5E (CD73) is a surface enzyme which is expressed on multiple cells. This enzyme mediates the gradual hydrolysis of the autocrine and paracrine danger signals of ATP and ADP to anti-inflammatory adenosine. Immune suppression mediated by adenosinergic pathways is very important for maintaining immune system homeostasis. Immune suppressive functions of T regulatory cells are also dependent on CD73 expression. Treg's generally suppress the immune response. They affect proliferation and function of T cell. CD73 also occurs on anergic CD4 + T cells, thereby maintaining self-tolerance to healthy tissues as well as protecting the fetus from the mother's immune system during pregnancy. Also described was adenosine generated by NT5E, which limits the inflammatory immune response by negative feedback in neutrophil which express the adenosine receptor. NT5E can act as an immune inhibitory control molecule. Free adenosine generated by NT5E inhibits cellular immune responses and thereby promotes immune escape of tumor cells.</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:3.2 Revision Date:03/25/2024

Data Examples

Flow cytometry

H_NT5E(CD73) HEK-293 Cell Line (Catalog # GM-C25729) was stained with Anti-H_NT5E(CD73) hIgG1 Antibody(Oleclumab) (Catalog # GM-28674AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.

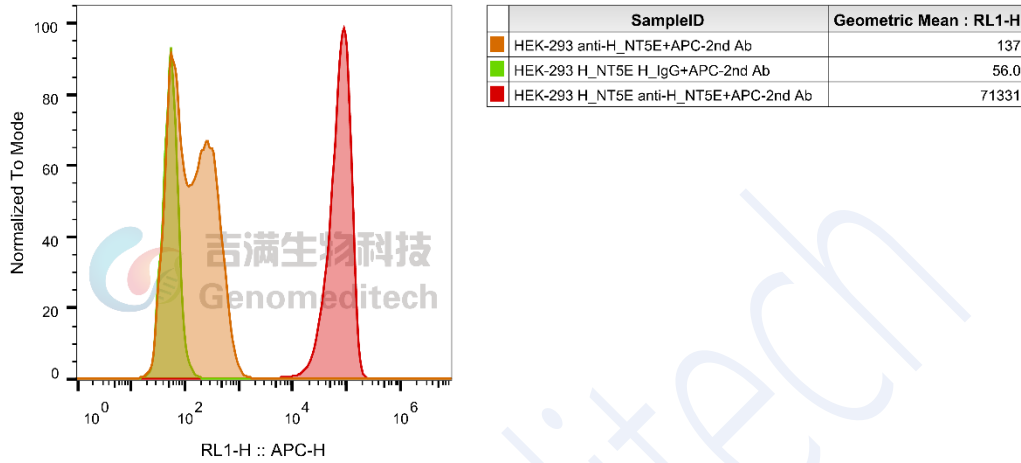


Fig 1. FACS

Flow cytometry

H_NT5E(CD73) CHO-K1 Cell Line (Catalog # GM-C19009) was stained with Anti-H_NT5E(CD73) hIgG1 Antibody(Oleclumab) (Catalog # GM-28674AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.

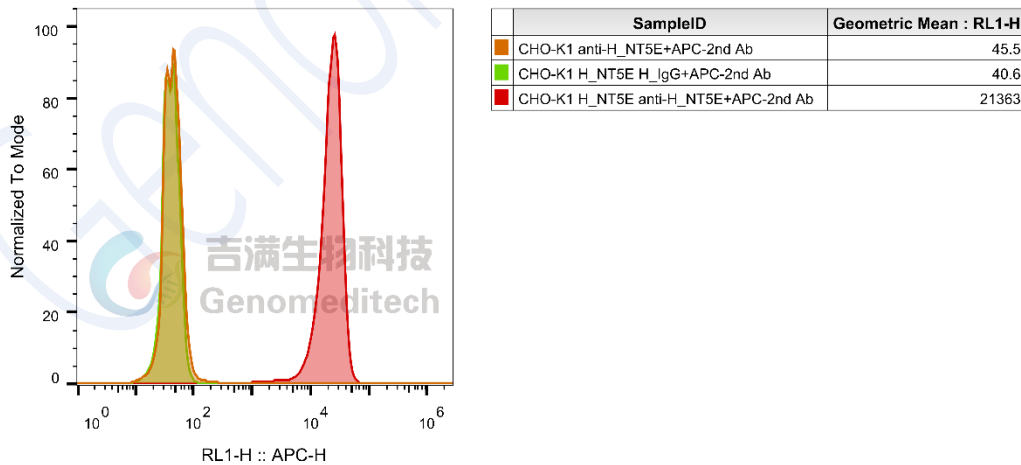


Fig 2. FACS

Flow cytometry

Cynomolgus_NT5E(CD73) CHO-K1 Cell Line (Catalog # GM-C25730) was stained with Anti-H_NT5E(CD73) hIgG1 Antibody(Oleclumab) (Catalog # GM-28674AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.

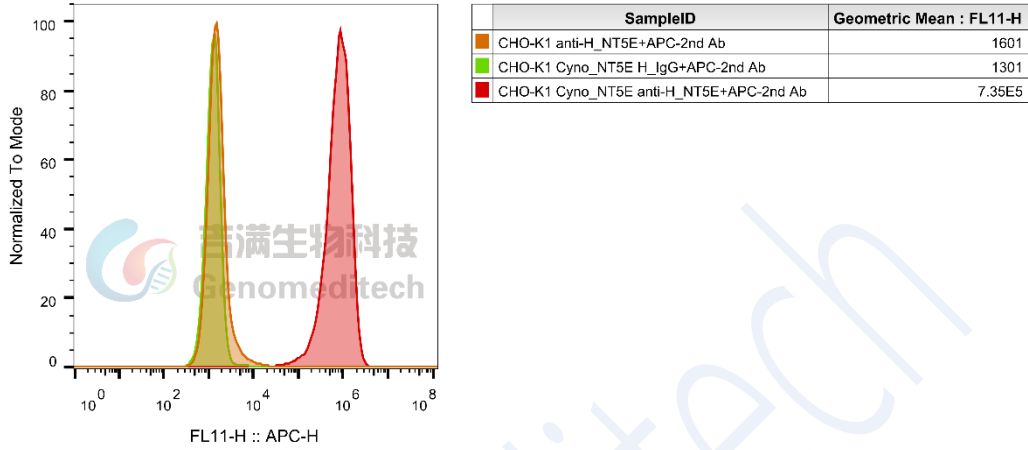


Fig 3. FACS