Genomeditech (Shanghai) Co.,Ltd. Order: 021-68455258/50432826/50432825

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Anti-H_CTLA-4 hlgG1 Antibody(Ipilimumab)

Product information

GM-27203AB-10 10 μg GM-27203AB-100 100 μg GM-27203AB-1000 1 mg

Antibody Information

Species Reactivity Human; Cynomolgus

Clone Ipilimumab

Source/Isotype Monoclonal Human IgG1 /κ
Application Flow Cytometry; Bioassay

Specificity Detects CTLA-4

Gene CTLA-4

Other Names ALPS5, CD, CD152, CELIAC3, CTLA4, GRD4, GSE, IDDM12

Gene ID 1493(human); G7PL88-1(Cynomolgus)

Background CTLA-4 or CTLA4 (cytotoxic T-lymphocyte-associated protein 4), also

known as CD152 (cluster of differentiation 152), is a protein receptor that functions as an immune checkpoint and downregulates immune responses. CTLA-4 is constitutively expressed in regulatory T cells but only upregulated in conventional T cells after activation - a phenomenon which is particularly notable in cancers. It acts as an "off" switch when bound to CD80 or CD86 on the surface of antigen-presenting cells. CTLA-4 is a member of the immunoglobulin superfamily that is expressed by activated T cells and transmits an inhibitory signal to T cells. CTLA-4 is homologous to the T-cell co-stimulatory protein, CD28, and both molecules bind to CD80 and CD86, also called B7-1 and B7-2 respectively, on antigen-presenting cells. CTLA-4 binds CD80 and CD86 with greater affinity and avidity than CD28 thus enabling it to outcompete CD28 for its ligands. CTLA-4 transmits an inhibitory signal to T cells, whereas CD28 transmits a stimulatory signal. CTLA-4 is also found in regulatory T cells (Tregs) and contributes to their inhibitory function. T cell activation through the T cell receptor and CD28 leads to increased

expression of CTLA-4.

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

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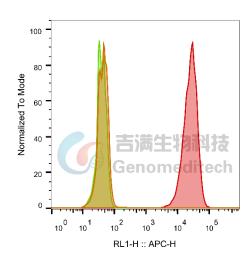
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Data Examples

Flow cytometry

H_CTLA4 CHO-K1 Cell Line (Catalog # GM-C23829) was stained with Anti-H_CTLA-4 hlgG1 Antibody(Ipilimumab) (Catalog # GM-27203AB) or isotype control antibody, followed by anti-Human lgG APC-conjugated Secondary Antibody.

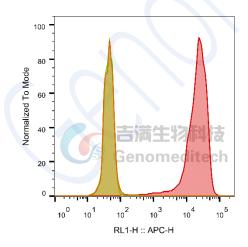


SampleID	Geometric Mean : RL1-H
CHO-K1 anti-CTLA4+APC-2nd Ab	44.7
CHO-K1 H_CTLA4 H_IgG+APC-2nd Ab	39.2
CHO-K1 H_CTLA4 anti-CTLA4+APC-2nd Ab	24041

Fig 1. FACS

Flow cytometry

Cynomolgus_CTLA4 HEK-293 Cell Line (Catalog # GM-C25122) was stained with Anti-H_CTLA-4 hlgG1 Antibody(Ipilimumab) (Catalog # GM-27203AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.



	SampleID	Geometric Mean : RL1-H	
	HEK-293 anti-H_CTLA4+APC-2nd Ab	47.0	
	HEK-293 Cyno_CTLA4 H_IgG+APC-2nd Ab	44.6	
	HEK-293 Cyno_CTLA4 anti-H_CTLA4+APC-2nd Ab	18775	

Fig 2. FACS



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Bioassay

Anti-H_CTLA-4 hlgG1 Antibody(Ipilimumab) (Catalog # GM-27203AB) stimulates H_CTLA4 Reporter Jurkat Cell Line (Catalog # GM-C23902) Luminescence induced by Raji Cell Line (Catalog # GM-C19100) blended with OKT3. EC50 for this effect is 0.4153 µg/mL.

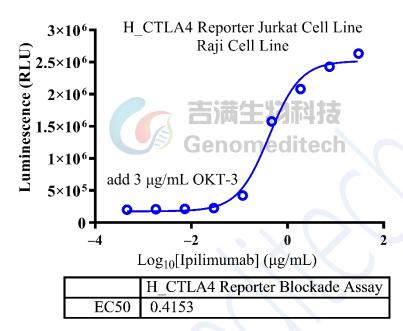


Fig 3. Assay