

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 CD80 | | | |
| | 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 \leq -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 | | |

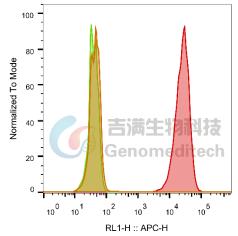
Version:3.3



Data Examples

Flow cytometry

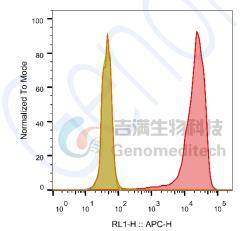
H_CTLA4 CHO-K1 Cell Line (Catalog # GM-C23829) was stained with Anti-H_CTLA-4 hlgG1 Antibody(Ipilimumab) (Catalog # GM-27203AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.



| | 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 |
| 耐井友 litech | | |
| | | |
| 10 ⁵ | | |

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 APCconjugated Secondary Antibody.



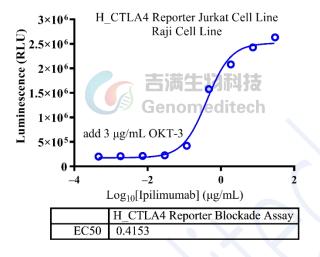
| SampleID | Geometric Mean : RL1-H |
|--|------------------------|
| HEK-293 anti-H_CTLA4+APC-2nd Ab | 47.0 |
| HEK-293 Cyno_CTLA4 H_IgG+APC-2nd Ab | 44.6 |
| HEK-293 Cyno_CTLA4 anti-H_CTLA4+APC-2nd Ab | 18775 |

Fig 2. FACS



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.





Bioactivity-ELISA

Cynomolgus CTLA4 Protein; His Tag (Catalog # GM-87555RP) was immobilized at 1 μ g/ml (100 μ L/well). Increasing concentrations of Anti-H_CTLA-4 hlgG1 Antibody(Ipilimumab) (Catalog # GM-27203AB) were added.

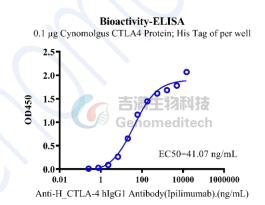


Fig 4. Assay

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Bioactivity-ELISA

Biotinylated Cynomolgus CTLA4 Protein; His-Avi Tag (Catalog # GM-87556RP) was immobilized at 1 μ g/ml (100 μ L/well) on streptavidin precoated. Increasing concentrations of Anti-H_CTLA-4 hlgG1 Antibody(Ipilimumab) (Catalog # GM-27203AB) were added.

Bioactivity-ELISA 0.1 µg Biotinylated Cynomolgus CTLA4 Protein; His-Avi Tag of per well

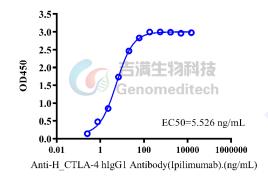


Fig 5. Assay

Version:3.3