

Anti-CTLA-4/PD-1 hIgG1 Bispecific Antibody(Cadonilimab)

Product Information

GM-60293AB-10	10 µg
GM-60293AB-100	100 µg
GM-60293AB-1000	1 mg

Antibody Information

Species Reactivity	Human
Specificity	Detects human CTLA-4 and PD-1.
Source/Isotype	Monoclonal human IgG1, κ
Application	Binding activation: 100 pg/mL-100 µg/mL
Background	PD-1 is an immunosuppressive receptor expressed by activated T and B cells and plays a key role in the regulation of the immune response to tumor antibodies and autoantigens. The interaction between PD-1 and its ligand PD-L1 or PD-L2 in neighboring cells can inhibit the conduction of TCR signaling pathway and the effects of TCR-mediated cell proliferation, transcriptional activation, and cytokine production. Therapeutic antibodies and Fc fusion proteins used to block PD-1/PD-L1 interactions have been shown to be promising in clinical trials for the treatment of various cancers. CTLA-4, also known as CD152, is an immunosuppressive receptor that is constitutively expressed on regulatory T cells (Tregs). It plays a key role in the regulation of immune response. When CTLA4 is upregulated on T cell surface, T cells bind to CD80(B7-1) or CD86(B7-2) with a higher affinity than CD28's positive costimulatory signal, thus inducing T cell nonreactivity. Antibodies and Fc fusion proteins that block the interaction of CTLA4/CD80 and CD86 have been shown to have promising applications in clinical trials against various cancers.
Storage	Store at +4°C short term (1-2 weeks). Store at -20°C long term
Formulation	Phosphate-buffered solution, pH 7.2.

Data Examples

Binding activation

- Coating 100 $\mu\text{L}/\text{well}$ H_CD80 PDL1 aAPC CHO-K1 Cell Line (Catalog # GM-C30574; 1.5×10^5 cells/mL) on 96-well plate, store at CO₂ cell incubator overnight.
- Gently remove the liquid, add 25 $\mu\text{L}/\text{well}$ Anti-CTLA-4/PD-1 hlgG1 Bispecific Antibody (400 $\mu\text{g}/\text{mL}$) in gradient dilution with assay buffer (RPMI 1640+1% FBS+1% P.S).
- Add 25 $\mu\text{L}/\text{well}$ H_CTLA4 PD-1 Reporter Cell Line (Catalog # GM-C26486; 4×10^6 cells/mL).
- Add 50 $\mu\text{L}/\text{well}$ assay buffer (RPMI 1640+1% FBS+1% P.S), and incubate at CO₂ cell incubator 37°C for 6 hours.
- Microplate reader to the luminescence and analysis the data.

