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

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Anti-H_CD274(PDL1) hlgG1 Antibody

(Atezolizumab)

Product information

GM-31740AB-10 10 μg GM-31740AB-100 100 μg GM-31740AB-1000 1 mg

Antibody Information

Species Reactivity Human; Mouse Clone Atezolizumab

Source/Isotype Monoclonal Human IgG1 /κ
Application Flow Cytometry; Block assay

Specificity Detects PDL1

Gene PDL1

Other Names B7-H, B7H1, PD-L1, PDCD1L1, PDCD1LG1, CD274, hPD-L1

Gene ID 29126(human), 60533(mouse)

Background Programmed death-ligand 1 (PD-L1) also known as cluster of

differentiation 274 (CD274) or B7 homolog 1 (B7-H1) is a protein that in humans is encoded by the CD274 gene. Programmed death-ligand 1 (PD-L1) is a 40kDa type 1 transmembrane protein that has been speculated to play a major role in suppressing the adaptive arm of immune systems during particular events such as pregnancy, tissue allografts, autoimmune disease and other disease states such as hepatitis. Normally the adaptive immune system reacts to antigens that are associated with immune system activation by exogenous or endogenous danger signals. In turn, clonal expansion of antigen-specific CD8+ T cells and/or CD4+ helper cells is propagated. The binding of PD-L1 to the inhibitory checkpoint molecule PD-1 transmits an inhibitory signal based on interaction with phosphatases (SHP-1 or SHP-2) via Immunoreceptor Tyrosine-Based Switch Motif (ITSM). This reduces the proliferation of antigen-specific T-cells in lymph nodes, while simultaneously reducing apoptosis in regulatory T cells (anti-inflammatory, suppressive T cells) - further

mediated by a lower regulation of the gene Bcl-2.

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:3.1 Revision Date:12/29/2023

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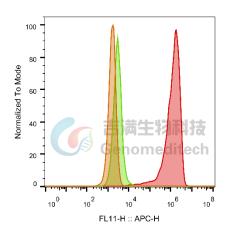
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Data Examples

Flow cytometry

The recommended usage range is 0.5-4 μ g per test. H_CD274(PD-L1) CHO-K1 Cell Line (Catalog # GM-C01115) was stained with Anti-H_CD274(PDL1) hlgG1 Antibody(Atezolizumab)(Catalog # GM-31740AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.

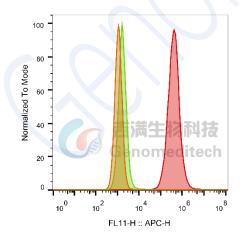


SampleID	Geometric Mean : FL11-H
CHO-K1 anti-H_CD274(PDL1)+APC-2nd Ab	1627
CHO-K1 H_CD274(PDL1) H_IgG+APC-2nd Ab	2962
CHO-K1 H_CD274(PDL1) anti-H_CD274(PDL1)+APC-2nd Ab	1.14E6

Fig 1. FACS

Flow cytometry

The recommended usage range is 0.5-4 μg per test. Mouse PDL1 aAPC CHO-K1 Cell Line (Catalog # GM-C25791) was stained with Anti-H_CD274(PDL1) hlgG1 Antibody(Atezolizumab)(Catalog # GM-31740AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.



SampleID	Geometric Mean : FL11-H
CHO-K1 anti-H_PDL1+APC-2nd Ab	1154
Mouse_PDL1 aAPC CHO-K1 H_lgG+APC-2nd Ab	1769
Mouse_PDL1 aAPC CHO-K1 anti-H_PDL1+APC-2nd Ab	397116

Fig 2. FACS

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Block assay

Anti-H_CD274(PDL1) hlgG1 Antibody(Atezolizumab)(Catalog # GM-31740AB) stimulated Luminescence of H_PD-1 Reporter Jurkat Cell Line (Catalog # GM-C07928) binded with aAPC(OKT3) PDL1 CHO-K1 Cell Line (Catalog # GM-C05269). EC50 for this effect is 0.3911 μ g/mL.

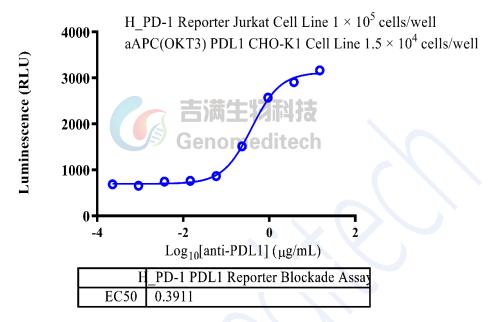


Fig 3. Assay