

Purified Anti-Human CD274/PD-L1 Antibody[29E.2A3], Functional Grade

catalog number: E-AB-F11330

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

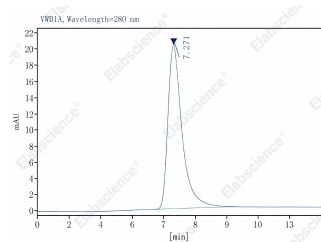
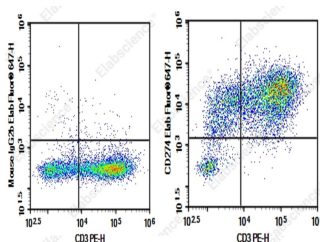
Reactivity	Human
Immunogen	Recombinant Human PD-L1 protein
Host	Mouse
Isotype	Mouse IgG2b, κ
Clone	29E.2A3
Purification	>98%, Protein A/G purified
Buffer	Sterile PBS, pH 7.2. < 1.0 EU per mg of the antibody as determined by the LAL method.

Applications

Recommended Dilution

FCM	$\leq 0.2 \mu\text{g}$ per million cells in 100 μL volume
Block	Reported in the literature
FA	Reported in the literature

Data



Human peripheral blood lymphocytes were activated for 3 days with PHA, then stained with 0.2 μg Purified Anti-Human CD274/PD-L1 Antibody[29E.2A3], Functional Grade (Right) and 0.2 μg Mouse IgG2b, κ Isotype Control (Left), followed by Elab Fluor® 647-conjugated Goat Anti-Mouse IgG Secondary Antibody, then anti-Human CD3 PE-conjugated Monoclonal Antibody.

Human peripheral blood lymphocytes were activated for 3 days with PHA, then stained with 0.2 μg Purified Anti-Human CD274/PD-L1 Antibody[29E.2A3], Functional Grade (Right) and 0.2 μg Mouse IgG2b, κ Isotype Control (Left), followed by Elab Fluor® 647-conjugated Goat Anti-Mouse IgG Secondary Antibody, then anti-Human CD3 PE-conjugated Monoclonal Antibody.

Preparation & Storage

Storage	Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles. This preparation contains no preservatives, thus it should be handled under aseptic conditions.
Shipping	Ice bag

Background

For Research Use Only

Toll-free: 1-888-852-8623
Web: www.elabscience.com

Tel: 1-832-243-6086
Email: techsupport@elabscience.com

Fax: 1-832-243-6017

Rev. V3.4

CD274, also known as PD-L1 and B7-H1, is type I transmembrane glycoprotein that serves as a ligand for CD279 (P D-1). This interaction is believed to regulate the balance between the stimulatory and inhibitory signals needed for responses to microbes and maintenance of self-tolerance. CD274 is involved in the costimulation of T cell proliferation and IL-10 and IFN- γ production in an IL-2-dependent and CD279-independent manner. Conflicting data has shown that CD274 can inhibit T cell proliferation and cytokine production, and alternatively, enhance T cell activation. Other studies suggest that CD274 may signal bidirectionally, raising interesting implications for its expression in a wide variety of cell types, including T and B cells, antigen-presenting cells, and nonhematopoietic cells.

None (Azide-Free, Low Endotoxin) are perfectly suited to be used in culture or in vivo (for nonhuman studies) for functional assays blocking, neutralizing, activation or depletion where the presence of azide may damage cells or exogenous endotoxin may signal or activate cells.

Application References

Ramya Sivakumar, et al. Oncoimmunology. 2019 Oct 10;8(12):e1670019. Katrijn Broos, et al. Vaccines (Basel). 2019 Aug 7;7(3):85.