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30-2602: Anti-Human CD273 APC (Clone: 24F.10C12)

Clonality: Monoclonal
Clone Name: 24F.10C12
Application: FACS
Reactivity: Human
Conjugate: APC
Gene: PDCD1LG2
Gene ID: 80380

Alternative Name: PDCD1LG2, B7DC, Btdc, PDL2, PDCD1L2, bA574F11.2, Butyrophilin, B7-DC, programmed cell

death 1 ligand 2

Isotype: Mouse IgG2a kappa **Immunogen Information:** human CD273

Description

CD273 / PD-L2 (programmed death ligand-1), also known as B7-DC, is a member of the B7 family of regulatory proteins. It costimulates the proliferation of T cells, and mediates IFN gamma production. Ligation of CD273 on dendritic cells enhances dendritic cell activation and T cell responses. When interacting with CD279, it can act as a coinhibitor of the T cell function. CD273 expression is a useful marker to distinguish primary mediastinal B cell lymphoma from other diffuse large B cell lymphomas.

Specificity: The mouse monoclonal antibody 24F.10C12 recognizes an extracellular epitope of CD273 / PD-L2 (also known as B7-DC), a 25 kDa type I transmembrane protein expressed by dendritic cells, activated monocytes and T cells, heart, first trimester placenta, lung and liver, as well as in Hodgkin´s lymphoma cells and primary mediastinal B cell lymphoma (PMBL).

Product Info

Amount: 100 tests

Purification : The purified antibody is conjugated with allophycocyanin (APC) under optimum conditions. The

conjugate is purified by size-exclusion chromatography.

Content: Formulation: Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium

azide

Storage condition: Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 $\tilde{A} \square \hat{A} \mu l$ reagent / 100 $\tilde{A} \square \hat{A} \mu l$ of whole blood or 10⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

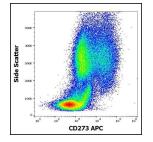


Figure 1 : Flow cytometry surface staining pattern of human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells stained using anti-human CD206 (15-2) PE-Cy $^{\text{m}}$ 7 antibody (4 μ l reagent per milion cells in 100 μ l of cell suspension).



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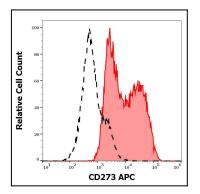


Figure 2 : Separation of human dendritic cells differentiated upon monocyte stimulation (GM-CSF + IL-4) (red-filled) from non-stimulated lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells stained using anti-human CD273 (24F.10C12) APC antibody (10 μ l reagent / 100 μ l of peripheral whole blood).