

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

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| 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

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| 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 μ l reagent / 100 μ l of whole blood or 10⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

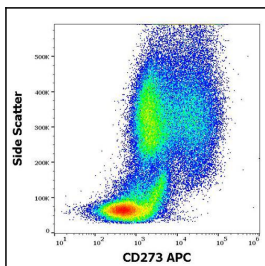


Figure 1 : Flow cytometry surface staining pattern of human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells stained using anti-human CD206 (15-2) PE-Cy⁷ antibody (4 μ l reagent per million cells in 100 μ l of cell suspension).

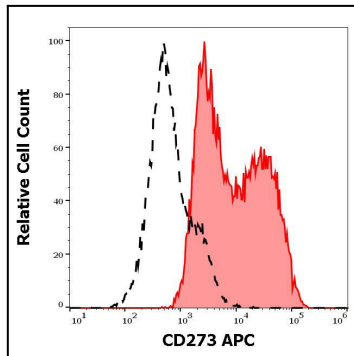


Figure 2 : Separation of human dendritic cells differentiated upon monocyte stimulation (GM-CSF + IL-4) (red-filled) from non-stimulated lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells stained using anti-human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