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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 HodgkinÂ´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 ÃÂµl reagent / 100 ÃÂµl of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

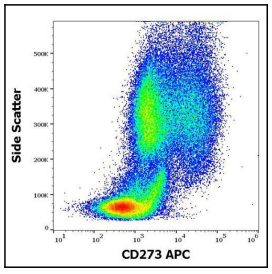

Figure 1 : Flow cytometry surface staining pattern of human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells stained using anti-human CD206 (15-2) PE-Cy™7 antibody (4 µl reagent per milion cells in 100 µl of cell suspension).

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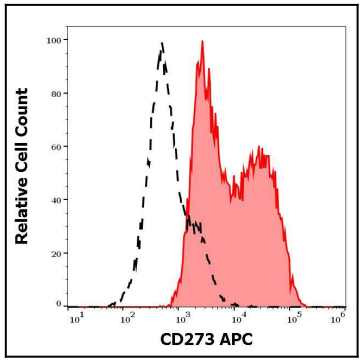

Figure 2 : Separation of human dendritic cells differentiated upon monocyte stimulation (GM-CSF + IL-4) (red-filled) from non-stimulated lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells stained using anti-human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

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