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30-1091-B: Anti-CD274 / PD-L1 Monoclonal Antibody (Clone:29E.2A3)-Biotin Conjugated

Clonality :	Monoclonal
Clone Name :	29E.2A3
Application :	IHC,FACS
Reactivity :	Human,Non-Human Primates
Conjugate :	Biotin
Gene :	CD274
Gene ID :	29126
Uniprot ID :	Q9NZQ7
Alternative Name :	CD274,B7H1,PDCD1L1,PDCD1LG1,PDL1
Isotype :	Mouse IgG2b kappa
Immunogen Information :	Full length human CD274

Description

Specificity: The mouse monoclonal antibody 29E.2A3 recognizes an extracellular epitope of CD274 / PD-L1 (also known as B7-H1), a 40 kDa type I transmembrane protein expressed by dendritic cells, activated T cells, activated monocytes, and in various tissues, above all in heart and skeletal muscle, placenta and lung, and in many cancer cells, including T cell lymphomas, melanomas, and glioblastomas.

Desciption: CD274 / PD-L1 (programmed death ligand-1), also known as B7-H1, is a member of the B7 family of regulatory proteins. It can act as both costimulatory and coinhibitory molecule for T cells. Interaction with its ligand CD279 (PD1) appears to be important in the maintenance of peripheral tolerance and in prevention of tumor rejection. Even pathogens (e.g. Schistosoma) may exploit CD274 to evade an immune response. Besides CD279, existence of other receptor(s) for CD274 is likely.

Product Info

Amount :	0.1 mg
Purification :	Purified antibody is conjugated with biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography.
Content :	Concentration: 1 mg/ml Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Flow cytometry: Recommended dilution: 0.5-4 µg/ml.

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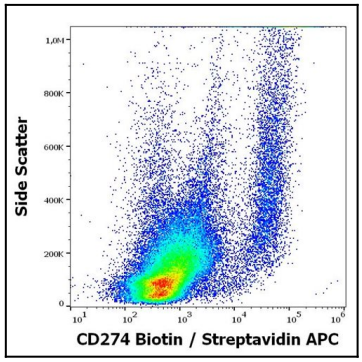

Figure 1: Flow cytometry surface staining pattern of stimulated (GM-CSF + IL-4) human mononuclear cells stained using anti-human CD274 (29E.2A3) Biotin antibody (concentration in sample 0.56 µg/ml, Streptavidin APC).

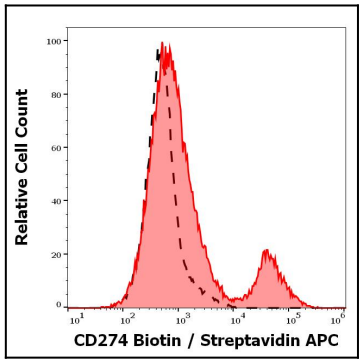

Figure 2: Separation of cells stained using anti-human CD274 (29E.2A3) Biotin antibody (concentration in sample 0.56 µg/ml, Streptavidin APC, red-filled) from cells unstained by primary antibody (Streptavidin APC, black-dashed) in flow cytometry analysis (surface staining) of stimulated (GM-CSF + IL-4) human mononuclear cells.