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30-2599: Anti-Human CD279 FITC (Clone : EH12.2H7)

Clonality :	Monoclonal
Clone Name :	EH12.2H7
Application :	FACS
Reactivity :	Human
Conjugate :	FITC
Gene :	PDCD1
Gene ID :	5133
Alternative Name :	PDCD1, PD1, SLEB2,programmed cell death 1
Isotype :	Mouse IgG1 kappa

Description

CD279 / PD-1 (programmed cell death 1), a transmembrane protein of CD28/CTLA-4 family. It is expressed inducibly mainly on activated T, B, and myeloid cells and plays a role in maintaining peripheral self-tolerance. Binding to its receptors CD273 and CD274 is associated with inhibition of T cell proliferation and induction of their anergy. It is also expressed during thymic development. Some variants of CD279 are associated with susceptibility to systemic lupus erythematosus, type 1 diabetes, and rheumatoid arthritis.
Specificity : The mouse monoclonal antibody EH12.2H7 recognizes an extracellular epitope of CD279 / PD-1 (programmed cell death 1), a 55 kDa type I transmembrane protein expressed above all during T cell development, on activated T cells, activated B cells, and activated monocytes.

Product Info

Amount :	100 tests
Purification :	The purified antibody is conjugated with fluorescein isothiocyanate (FITC) 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 4 Ã□Âµl reagent / 100 Ã□Âµl of whole blood or 10^6 cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

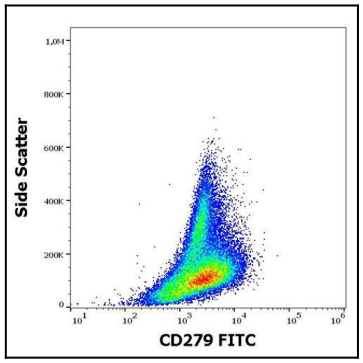

Figure 1 : Flow cytometry surface staining pattern of human PHA stimulated peripheral blood mononuclear cells stained using anti-human CD279 (EH12.2H7) FITC antibody (4 µl reagent per milion cells in 100 µl of cell suspension).

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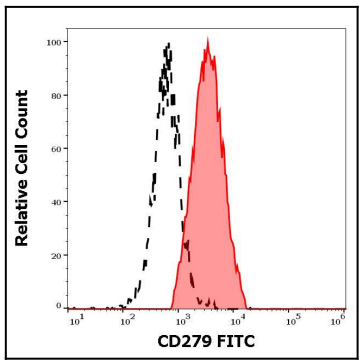

Figure 2 : Separation of human CD297 positive cells (red-filled) from cellular debris (black-dashed) in flow cytometry analysis (surface staining) of human PHA stimulated peripheral blood mononuclear cells stained using anti-human CD279 (EH12.2H7) FITC antibody (4 µl reagent per milion cells in 100 µl of cell suspension).