

30-2938-PE: Anti-Human CD276- PE Conjugated Monoclonal Antibody (Clone: 7-517)

Clonality :	Monoclonal
Clone Name :	7-517
Application :	FACS
Reactivity :	Human
Conjugate :	PE
Gene :	CD276
Gene ID :	80381
Uniprot ID :	Q5ZPR3
Alternative Name :	B7H3, B7RP-2
Isotype :	Mouse IgG1 kappa
Immunogen Information :	monocyte-derived dendritic cells

Description

Specificity: The mouse monoclonal antibody 7-517 recognizes an extracellular epitope of human CD276 (B7H3) transmembrane glycoprotein.

Background: CD276 (B7H3) is a type I transmembrane glycoprotein expressed on dendritic cells, osteoblasts, sinonasal epithelium, and upon activation (by inflammatory cytokines) in monocytes, NK cells, T cells and B cells. Although it has been described also as a costimulatory ligand, its major role seems to be inhibitory. It regulates T cell proliferation and functions, and may provide certain tumors with protection against NK cells. CD276 can be used as a marker of neuroblastoma cells in the bone marrow, which is the primary site of neuroblastoma relapse.

CD276 (B7H3) is a type I transmembrane glycoprotein expressed on dendritic cells, osteoblasts, sinonasal epithelium, and upon activation (by inflammatory cytokines) in monocytes, NK cells, T cells and B cells. Although it has been described also as a costimulatory ligand, its major role seems to be inhibitory. It regulates T cell proliferation and functions, and may provide certain tumors with protection against NK cells. CD276 can be used as a marker of neuroblastoma cells in the bone marrow, which is the primary site of neuroblastoma relapse.

Product Info

Amount :	100 tests (T100)
Purification :	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Content :	Formulation: Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

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.

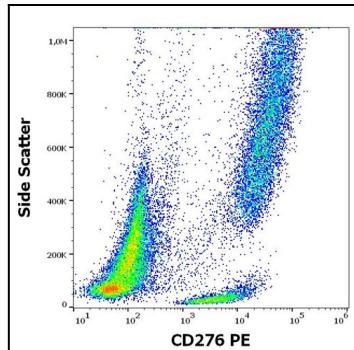
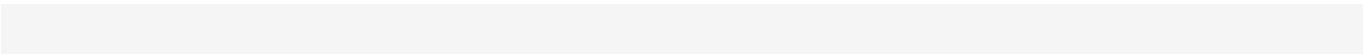


Figure 1: Flow cytometry surface staining pattern of human stimulated (GM-CSF + IL-4) monocytes stained using anti-human CD276 (7-517) PE antibody (concentration in sample 1.67 μ g/ml).

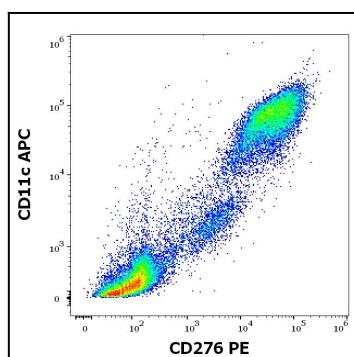


Figure 2: Flow cytometry multicolor surface staining pattern of human stimulated (GM-CSF + IL-4) monocytes stained using anti-human CD11c (BU15) APC antibody (10 μ l reagent / 100 μ l of peripheral whole blood) and anti-human CD276 (7-517) PE antibody (concentration in sample 1.67 μ g/ml).

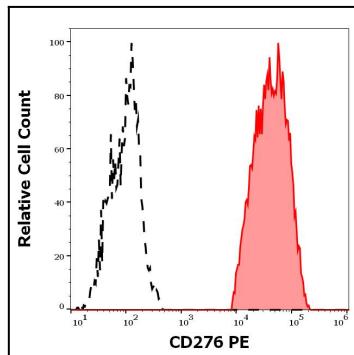


Figure 3: Separation of human CD11c positive CD276 positive cells (red-filled) from CD11c negative CD276 negative cells (black-dashed) in flow cytometry analysis (surface staining) of human stimulated (GM-CSF + IL-4) monocytes stained using anti-human CD276 (7-517) PE antibody (concentration in sample 1.67 μ g/ml).