9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

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

Clonality :	Monoclonal
Clone Name :	7-517
Application :	FACS
Reactivity :	Human
Conjugate :	APC
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 regullates 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.

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Product Info

Amount :	100 tests (T100)
Purification :	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and 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.

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Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

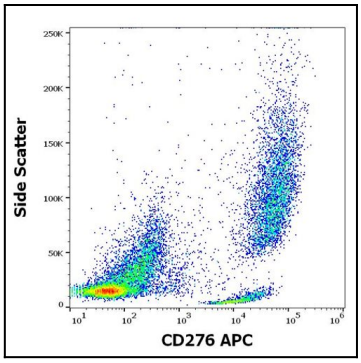


Figure 1: Flow cytometry surface staining pattern of human stimulated (GM-CSF + IL-4) monocytes stained using anti-human CD276 (7-517) APC antibody (concentration in sample 1 µg/ml).

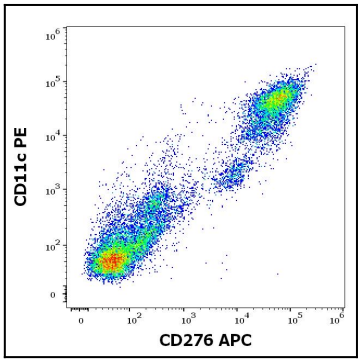


Figure 2:Flow cytometry multicolor surface staining pattern of human stimulated (GM-CSF + IL-4) monocytes stained using anti-human CD11c (BU15) PE antibody (20 µl reagent / 100 µl of peripheral whole blood) and anti-human CD276 (7-517) APC antibody (concentration in sample 1 µg/ml).

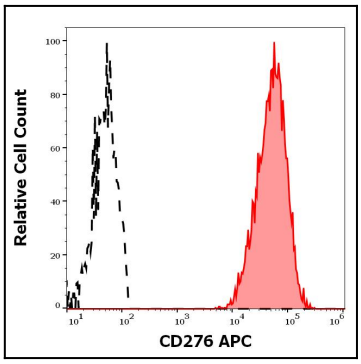


Figure 3: Separation of human CD11c positive CD276 positive cells (red-filled) from CD11c negative CD276 negative cells (black-dashed) in flow cytometry analysis (surface staining) of human stimulated (GM-CSF + IL-4) monocytes stained using anti-human TCR Vgamma4 (4A11.904) APC antibody (concentration in sample 0.19 µg/ml).

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