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

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

Clonality :	Monoclonal
Clone Name :	7-517
Application :	IHC-Fr,ELISA,FACS
Reactivity :	Human
Gene :	CD276
Gene ID :	80381
Uniprot ID :	Q5ZPR3
Format :	Purified
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.

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.

Product Info

Amount :	0.1 mg
Purification :	Purified by protein-A affinity chromatography.
Content :	Concentration: 1 mg/ml Formulation: Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Do not freeze.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.

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

Application Note

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

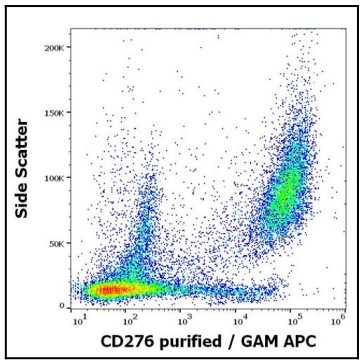


Figure 1: Flow cytometry surface staining pattern of human stimulated (GM-CSF + IL-4) monocytes stained using anti-human CD276 (7-517) purified antibody (concentration in sample 0.19 µg/ml) GAM APC.

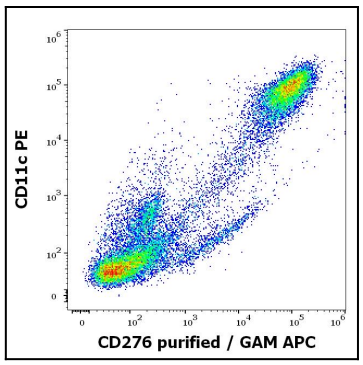


Figure 2: Flow cytometry multicolor surface staining pattern of human stimulated (GM-CSF + IL-4) monocytes stained using anti-human CD11c (BU15) PE antibody (10 µl reagent / 100 µl of peripheral whole blood) and anti-human CD276 (7-517) purified antibody (concentration in sample 0.19 µg/ml) GAM APC.

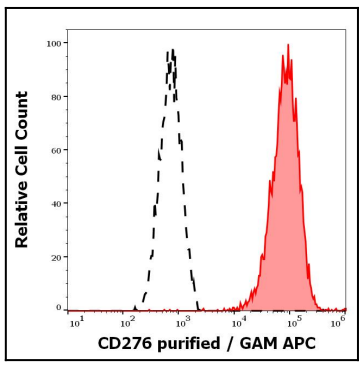


Figure 3: Separation of human CD11c positive cells stained using anti-human CD276 (7-517) purified antibody (concentration in sample 0.19 µg/ml, GAM APC, red-filled) from CD11c positive cells stained using mouse IgG1 isotype control (MOPC-21) purified antibody (concentration in sample 0.19 µg/ml, same as CD276 purified concentration, GAM APC, black-dashed) in flow cytometry analysis (surface staining) of human stimulated (GM-CSF + IL-4) monocytes.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.