

Purified Anti-Human CD276 Antibody[7-517]

catalog number: AN012960P

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

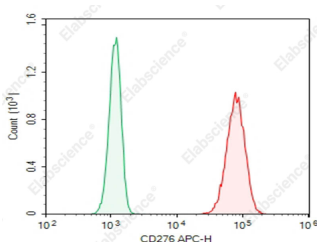
Reactivity	Human
Immunogen	Recombinant Human CD276 protein
Host	Mouse
Isotype	Mouse IgG1, κ
Clone	7-517
Purification	>98%, Protein A/G purified
Buffer	Phosphate-buffered solution, pH 7.2, containing 0.05% non-protein stabilizer. Dialyze to completely remove the stabilizer prior to labeling.

Applications

Recommended Dilution

FCM $\leq 0.2 \mu\text{g}$ per million cells in 100 μL volume

Data



PC-3 were stained with 0.2 μg Purified Anti-Human CD276 Antibody[7-517] (Right) and 0.2 μg Mouse IgG1, κ Isotype Control (Left), followed by APC-conjugated Goat Anti-Mouse IgG Secondary Antibody.

Preparation & Storage

Storage	Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles.
Shipping	Ice bag

Background

B7-H3, assigned as CD276, is a type I transmembrane protein and shares 20-27% amino acid identity with other B7 family members. Human B7-H3 has a single extracellular variable-type immunoglobulin (IgV)-IgC domain, a signature intracellular domain, and an additional isoform, known as 4Ig-B7-H3, containing nearly exact tandem duplication of the IgV-IgC domain and most likely caused by exon duplication. B7-H3 mRNA is broadly expressed in normal tissues whereas its protein expression is relatively rare. The expression of B7-H3 is induced on T cells, natural killer (NK) cells, and antigen-presenting cells (APCs), including dendritic cells (DCs) and macrophages. It can be upregulated during the maturation from monocytes to DCs, or during the interaction between DCs and regulatory T cells. B7-H3 has been shown to be a co-stimulatory molecule that inhibits T-cell responses. B7-H3 has also been identified to bind TLT-2 involved in the intracellular signaling pathway.

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