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**Anti-Mouse CD276 (B7-H3)
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL8776AP	Purified	250 µg	1.0 mg/ml	CLCR100
CL8776LE	Low Endotoxin	500 µg	1.0 mg/ml	CLCR100
CL8776B	Biotin	100 µg	0.1 mg/ml	CLCR115
CL8776F	FITC	100 µg	0.1 mg/ml	CLCR101
CL8776PE	PE	50 µg	0.1 mg/ml	CLCR104
CL8776APC	APC	100 µg	0.1 mg/ml	CLCR105

Isotype: Rat IgG₁, k

DESCRIPTION:

CD276 (B7-H3) is a type 1 transmembrane glycoprotein that belongs to the B7 family of co-stimulatory molecules. It's primary expressed at low levels on antigen presenting cells including B cells, macrophages, and dendritic cells. CD276 is also seen to be expressed on various human and murine tumor cells, nasal and airway epithelial cells. CD276 modulates T-cell-mediated immune responses and the development of acute and chronic transplant rejection. Its seen to play a positive regulatory role in bone formation and has a dual role in the bone-immune interface. Additionally, CD276 induces antitumor immunity as it activates both acquired and innate immunity leading to natural killer cell and CD8 T-cell dependent killing of tumor cells.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.

LE: Purified Ig buffered in PBS, no preservative, 0.2µm sterile filtered. (Purified from cell culture supernatant via Protein G Chromatography)

Biotin, FITC, PE and APC: Biotin/FITC/PE/APC conjugated IgG buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

STORAGE/STABILITY:

For all formats, store at 4°C. DO NOT FREEZE **PE and APC** conjugates. For long term storage (**Purified, LE, Biotin** and **FITC**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

APPLICATIONS:

This antibody is suitable for use in Flow Cytometry and has also been shown to block CD276 when administered *in vivo*.

Continued.....

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SPECIFICATIONS:

Clone: MJ18

Hybridoma Production:

Immunization: Immunogen: B7-H3-Ig, consisting of the extracellular domain (aa 1–242 of mouse B7-H3) linked to the Fc portion of mouse IgG2a.

Donor: Sprague Dawley Lymph node cells

Fusion Partner: P3U1 myeloma cell line.

Specificity: Mouse CD276 (B7-H3)

REFERENCES:

1. Nagashima, O. et al. (2008) B7-H3 contributes to the development of pathogenic Th2 cells in a murine model of asthma. *J Immunol.* 181 (6): 4062-71.
2. Fukushima, A. et al. (2007) B7-H3 regulates the development of experimental allergic conjunctivitis in mice. *Immunol Lett.* 113 (1): 52-7.

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