

## Monoclonal Antibody to CD273 / PDL2 - FITC

<b>Alternate names:</b>	B7DC, PD-1-ligand 2, PD-L2, PDCD1 ligand 2, PDCD1L2, PDCD1LG2, Programmed cell death 1 ligand 2, Programmed death ligand 2
<b>Catalog No.:</b>	AM01313FC-N
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.1 mg/ml
<b>Background:</b>	CD273 is a member of the B7 family, otherwise known as B7-dendritic cell (B7-DC), or programmed death ligand-2 (PD-L2). The expression of CD273 is restricted to a subpopulation of dendritic cells (DCs), and DCs and macrophages that have been stimulated with interferon gamma, GM-CSF or IL-4. CD273 has been identified as a ligand for PD-1(CD279), along with another B7 family member B7-H1 (CD279). Studies suggest that both CD273 and B7-H1 co-stimulate or inhibit T cell proliferation and cytokine production.
<b>Uniprot ID:</b>	<a href="#">Q9WUL5</a>
<b>NCBI:</b>	<a href="#">NP_067371.1</a>
<b>GeneID:</b>	<a href="#">58205</a>
<b>Host / Isotype:</b>	Rat / IgG2a
<b>Clone:</b>	TY25
<b>Immunogen:</b>	B7-DC transfected RAW264.7 cells. Lymph node cells from immunised SD rats were fused with the cells of the P3U1 myeloma cell line.
<b>Format:</b>	<b>State:</b> Liquid purified IgG <b>Purification:</b> Affinity chromatography on Protein G <b>Buffer System:</b> PBS, pH 7.4 containing 0.09% Sodium Azide and 1% Bovine Serum Albumin <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1
<b>Applications:</b>	Flow cytometry (Neat - 1/5): use 10 µl of the suggested working dilution to label 10e6 cells in 100 µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises mouse CD273.
<b>Add. Information:</b>	Antibodies produced by clone TY25 are reported to block the binding of CD273 (B7-DC) to it's receptor. We recommend the use of AM01313LE-N for functional studies.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. This product is photosensitive and should be protected from light. Shelf life: one year from despatch.

- General Readings:**
1. Matsumoto K, Inoue H, Nakano T, Tsuda M, Yoshiura Y, Fukuyama S, et al. B7-DC regulates asthmatic response by an IFN-gamma-dependent mechanism. *J Immunol.* 2004 Feb 15;172(4):2530-41. PubMed PMID: 14764726.
  2. Yamazaki T, Akiba H, Iwai H, Matsuda H, Aoki M, Tanno Y, et al. Expression of programmed death 1 ligands by murine T cells and APC. *J Immunol.* 2002 Nov 15;169(10):5538-45. PubMed PMID: 12421930.
  3. Kanai T, Totsuka T, Uraushihara K, Makita S, Nakamura T, Koganei K, et al. Blockade of B7-H1 suppresses the development of chronic intestinal inflammation. *J Immunol.* 2003 Oct 15;171(8):4156-63. PubMed PMID: 14530338.

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**For research and in vitro use only. Not for diagnostic or therapeutic work.**

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