

**AM01313PU-N****Monoclonal Antibody to CD273 / PDL2 - Purified**

<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>Quantity:</b>	0.25 mg
<b>Concentration:</b>	1.0 mg/ml
<b>Background:</b>	<p>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).</p> <p>Studies suggest that both CD273 and B7-H1 co-stimulate or inhibit T cell proliferation and cytokine production. Antibodies produced by clone TY25 are reported to block the binding of CD273 (B7-DC) to it's receptor.</p>
<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>Recommended Isotype Controls:</b>	SM15P, SM15PX
<b>Clone:</b>	TY25
<b>Immunogen:</b>	<p>B7-DC transfected RAW264.7 cells. Lymph node cells from immunised SD rats were fused with the cells of the P3U1 myeloma cell line.</p> <p><b>Genename:</b> CD273</p>
<b>Format:</b>	<p><b>State:</b> Liquid purified Ig</p> <p><b>Purification:</b> Affinity chromatography on Protein G</p> <p><b>Buffer System:</b> PBS, pH 7.4 containing 0.09% Sodium Azide</p>
<b>Applications:</b>	<p>Immunoprecipitation.</p> <p>Immunohistochemistry on frozen sections.</p> <p>Flow Cytometry: 1/100 - 1/200; Use 10µl of the suggested working dilution to label 10e6 cells in 100µl.</p> <p>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
<b>Specificity:</b>	<p>This antibody recognises mouse CD273, a 42kD member of the B7 family, otherwise known as B7-dendritic cell (B7-DC), or programmed death ligand-2 (PD-L2).</p> <p><b>Species:</b> Mouse.</p> <p>Other species not tested.</p>
<b>Storage:</b>	<p>Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.</p> <p>Avoid repeated freezing and thawing.</p> <p>Shelf life: one year from despatch.</p>

**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.