

Monoclonal Antibody to CD274 / PDL1 - FITC

Alternate names:	B7 homolog 1, B7H1, B7H1, PD-L1, PDCD1 ligand 1, PDCD1L1, PDCD1LG1, Programmed cell death 1 ligand 1, Programmed death ligand 1
Catalog No.:	AM05613FC-N
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	<p>CD274 is reported to possess dual functions; inhibition of activated effector T cells and co-stimulation of native T cells. CD274 inhibits proliferation of activated T cells via ligation to the co-inhibitory molecule CD279 (programmed death-1; PD-1) leading to the secretion of the regulatory cytokine interleukin-10. CD274 has also been shown to costimulate early T cell priming and differentiation.</p> <p>Deregulated CD274 function has been reported in chronic viral and intracellular bacterial infection, as well as in many autoimmune diseases and cancers.</p>
Uniprot ID:	Q9NZQZ
NCBI:	NP_054862.1
GeneID:	29126
Host / Isotype:	Mouse / IgG1
Clone:	MIH2
Immunogen:	Human CD274 transfected P815 cells. Remarks: Cells from immunised mice were fused with cells of the P3U1 myeloma cell line.
Format:	State: Liquidi purified IgG fraction Purification: Affinity Chromatography on Protein G Buffer System: PBS containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: Use 10 µl of neat-1/10 diluted antibody to label 1x10 ⁶ cells in 100 µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody detects CD274, also known as B7-H1 and PD-1L, a cell surface glycoprotein which is a member of the B7 family of co-stimulatory molecules. CD274 is expressed constitutively on macrophages and dendritic cells, and is induced on activated T-cells, B-cells, endothelial cells and epithelial cells in response to Interferons alpha, beta and gamma.
Species Reactivity:	Tested: Human.

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings: 1. 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.

Pictures: Flow Cytometry: AM05613FC-N FITC conjugated CD274 antibody Staining of Human peripheral blood monocytes.

