

Polyclonal Antibody to CD274 / PDL1 (Larger Isoform) - Aff - Purified

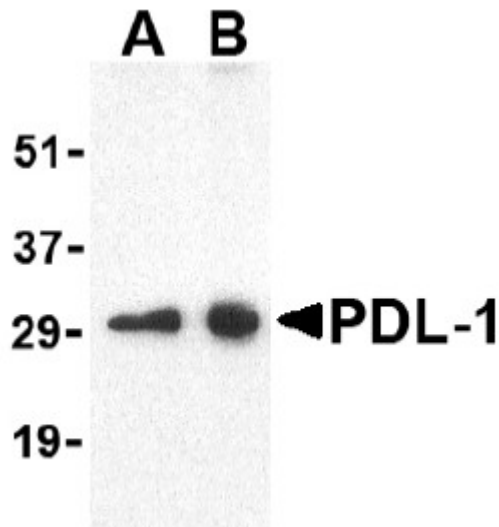
Alternate names:	B7 homolog 1, B7H1, B7H1, PD-L1, PDCD1 ligand 1, PDCD1L1, PDCD1LG1, Programmed cell death 1 ligand 1, Programmed death ligand 1
Catalog No.:	AP09391PU-N
Quantity:	0.1 mg
Concentration:	1.0 mg/ml (by UV absorbance at 280 nm)
Background:	D Cell-mediated immune responses are initiated by T lymphocytes that are themselves stimulated by cognate peptides bound to MHC molecules on antigen-presenting cells (APC). T-cell activation is generally self-limited as activated T cells express receptors such as PDCD-1 (Programmed Cell Death 1) that mediate inhibitory signals from the APC. PDCD-1 can bind two different but related ligands, PDL-1 and PDL-2 (Programmed Cell Death Ligand -1 and -2, respectively). PDL-1 is a B7-related protein that inhibits cell-mediated immune responses by reducing the secretion of IL-2 and IL-10 from memory T cells. This suggests that PDL-1 may be useful in reducing allogenic CD4+ memory T cell responses to endothelial cells, thereby reducing the likelihood of host immune responses to allografts. At least two isoforms of PDL-1 are known to exist; this antibody is specific to the larger isoform. PDL-1 antibody has no cross-reactivity to PDL-2.
Uniprot ID:	Q9NZQ7
NCBI:	NP_054862.1
GeneID:	29126
Host / Isotype:	Rabbit / IgG
Immunogen:	Synthetic peptide corresponding to a region near the amino terminus of human PDL-1 protein
Format:	State: Liquid purified Ig Purification: Affinity chromatography Buffer System: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 containing 0.02% (w/v) Sodium Azide
Applications:	ELISA: 1/10,000 - 1/40,000. Western Blot: 0.5 - 1 µg/ml. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody is directed against PDL-1 protein.
Species Reactivity:	Tested: Human. Expected from sequence similarity: Mouse, Rat.

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Storage: Store the antibody at -20°C.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General References: 1. Holling TM, Schooten E, and van Den Elsing PJ. Function and regulation of MHC class II molecules in T-lymphocytes: of mice and men. *Hum. Immunol.* 2004; 65:282-90.
2. Ishida Y, Agata Y, Shibahara K, et al. Induced expression of PD-1, a novel member of the immunoglobulin gene superfamily, upon programmed cell death. *EMBO J.* 1992; 11:3887-95.
3. LaGier J and Pober JS. Immune accessory functions of human endothelial cells are modulated by overexpression of B7-H1 (PDL1). *Hum. Immunol.* 2006; 67:568-78.

Pictures:



Western blot using affinity purified anti-PDL-1 antibody shows detection of a predominant band at ~31 kDa corresponding to PDL-1 (arrowhead) in Raji whole cell lysate. The predicted MW of PDL-1 is 33 kDa. PDL-1 was detected using 0.5 µg/ml (lane A) and 1 µg/ml (lane B) concentrations of primary antibody.