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Product datasheet for CF807995

PD1 (PDCD1) Mouse Monoclonal Antibody [Clone ID: OTI7B4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI7B4
Applications:	ELISA, FC, LMNX, WB
Recommended Dilution:	FLOW 1:50
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human PDCD1 (NP_005009) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	29.2 kDa
Gene Name:	programmed cell death 1
Database Link:	NP_005009 Entrez Gene 18566 MouseEntrez Gene 5133 Human Q15116

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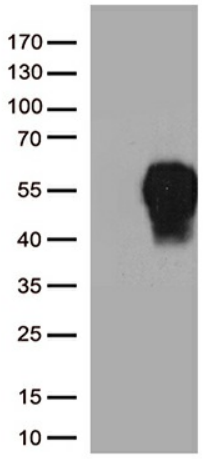
Background: This gene encodes a cell surface membrane protein of the immunoglobulin superfamily. This protein is expressed in pro-B-cells and is thought to play a role in their differentiation. In mice, expression of this gene is induced in the thymus when anti-CD3 antibodies are injected and large numbers of thymocytes undergo apoptosis. Mice deficient for this gene bred on a BALB/c background developed dilated cardiomyopathy and died from congestive heart failure. These studies suggest that this gene product may also be important in T cell function and contribute to the prevention of autoimmune diseases. [provided by RefSeq, Jul 2008]

Synonyms: CD279; hPD-1; hPD-l; hSLE1; PD-1; PD1; SLEB2

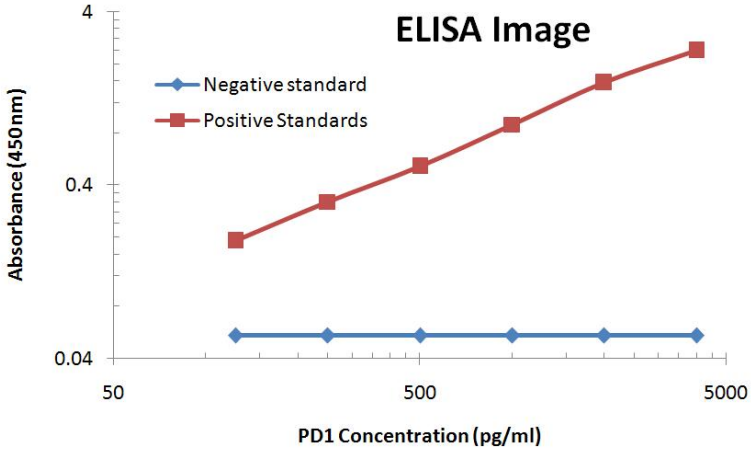
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs), T cell receptor signaling pathway

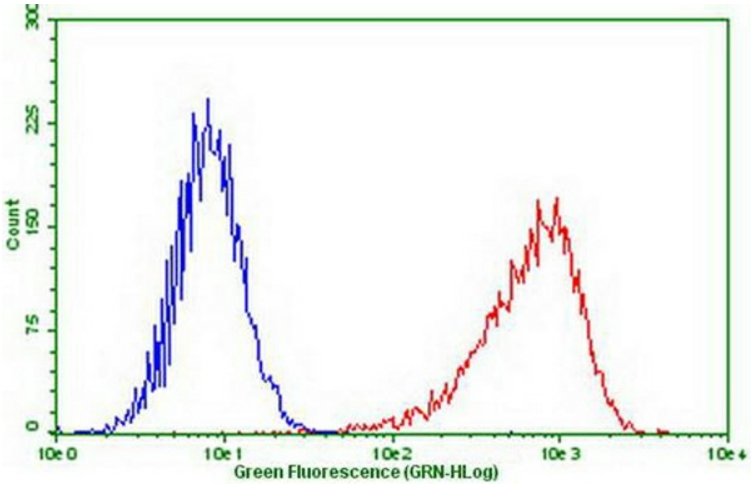
Product images:



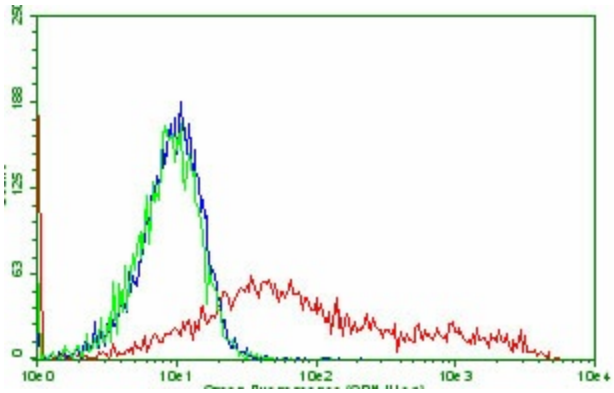
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PDCD1 ([RC210364], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PDCD1. Positive lysates [LY401555] (100ug) and [LC401555] (20ug) can be purchased separately from OriGene.



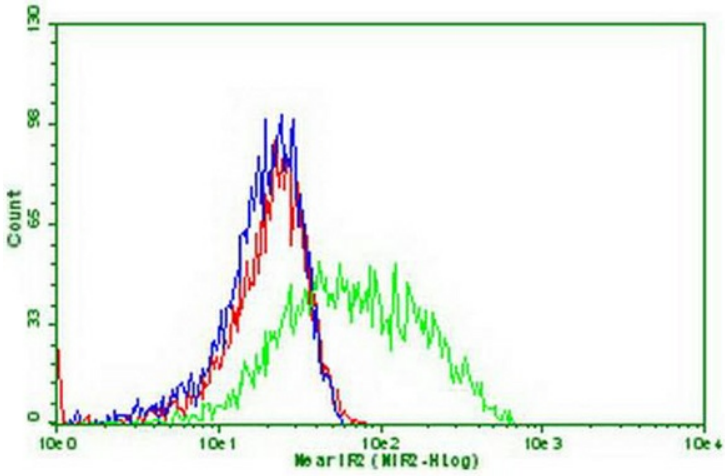
PD1 ELISA with 7B4 Capture (CF807995) and 21F5 Detection ([CF806927]) Antibodies. Substrate used: Recombinant Human PD1 ([TP310364])



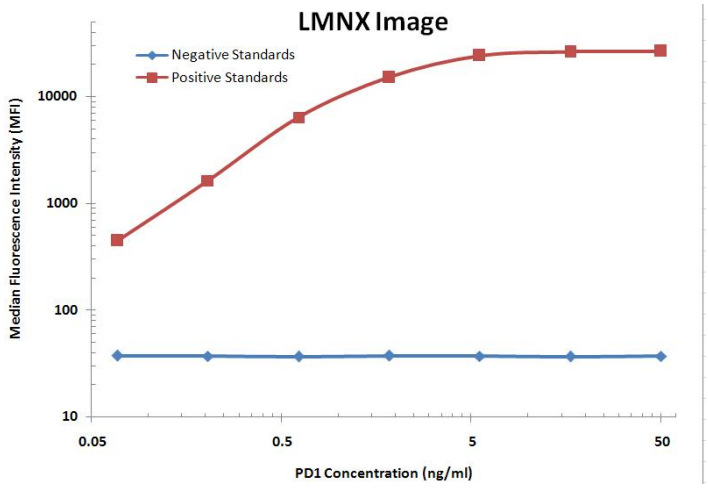
Flow cytometric Analysis of stable expression PD1 cells using anti-PDCD1 antibody ([TA807995]) (Red) compared to a nonspecific negative control antibody (Blue) (1:50).



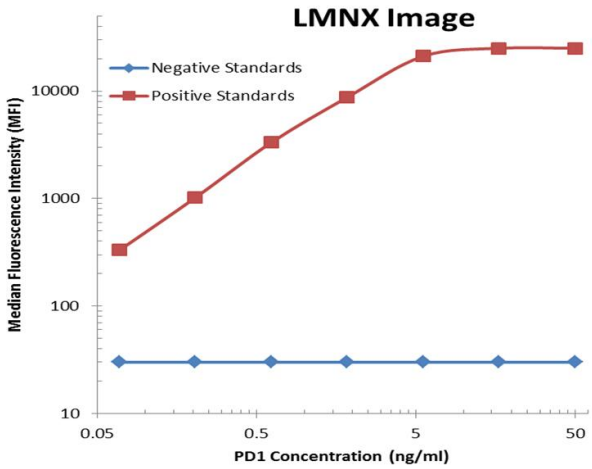
HEK293T cells transfected with either mouse PD1 ([MR227347]) overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-PDCD1 antibody ([TA807995]), compared to a nonspecific negative control antibody (green), and then analyzed by flow cytometry (1:50).



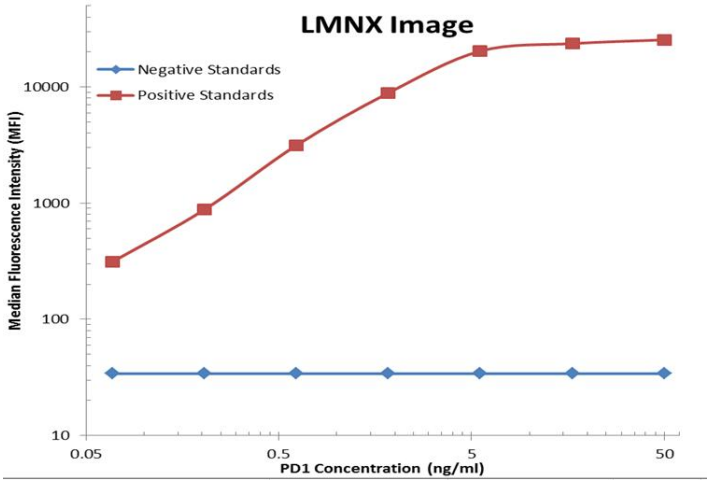
Flow cytometric Analysis of stable expression PDL1 ([RC213071]) cells using anti-PDCD1 antibody ([TA807995]) (blue) or 0.3ug/ml PD1-Fc fusion protein ([TP700199]) (green) or both (red), and detected by anti-Fc (human) IgG-FITC (1:50).



PD1 Luminex ELISA with 7B4 Capture (CF807995) and 21F5 Detection ([CF806927]) Antibodies. Substrate used: Recombinant Human PD1 ([TP310364])



PD1 Luminex ELISA with 7B4 Capture (CF807995) and 17G9 Detection ([CF807207]) Antibodies. Substrate used: Recombinant Human PD1 ([TP310364])



PD1 Luminex ELISA with 7B4 Capture (CF807995) and 8B1 Detection ([CF806835]) Antibodies. Substrate used: Recombinant Human PD1 ([TP310364])