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Product datasheet for TA806929M

PD1 (PDCD1) Mouse Monoclonal Antibody [Clone ID: OTI16D4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI16D4
Applications:	FC, IF, Neutralize, WB
Recommended Dilution:	WB 1:2000, IF 1:100~900, FLOW 1:50
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human PDCD1 (NP_005009) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
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 5133 Human Q15116

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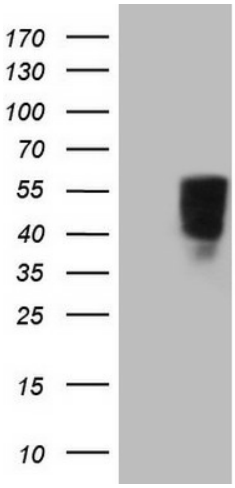
Background: This gene encodes a cell surface membrane protein of the immunoglobulin superfamily. This protein is expressed in pro-B-cells and is thought to play a role in their differentiation. In mice, expression of this gene is induced in the thymus when anti-CD3 antibodies are injected and large numbers 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

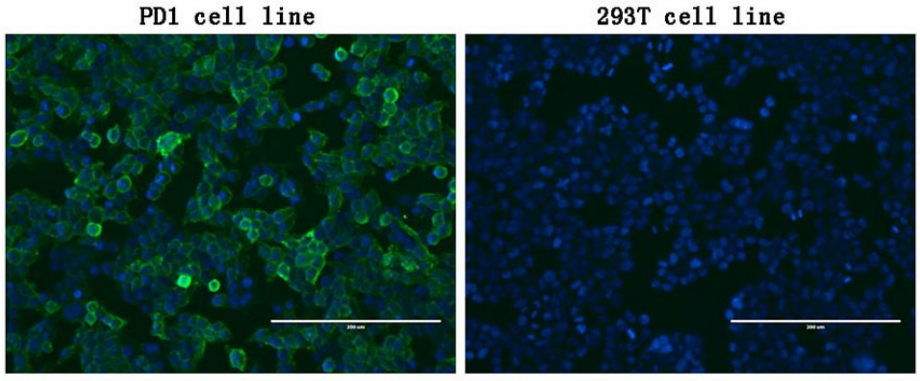
Protein Families: Druggable Genome, Transmembrane

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

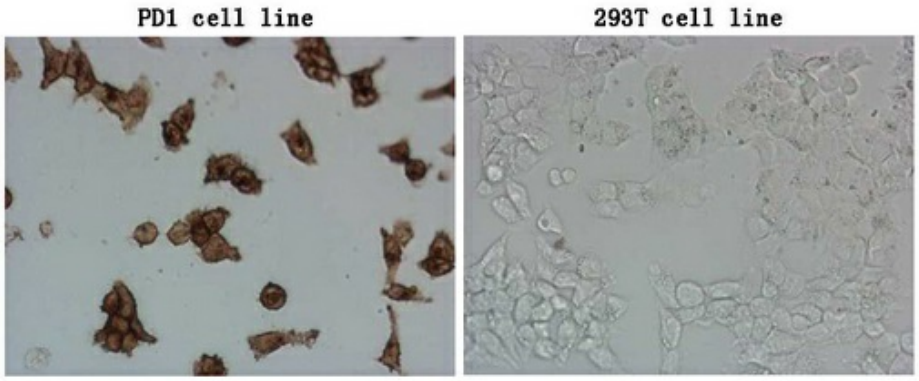
Product images:



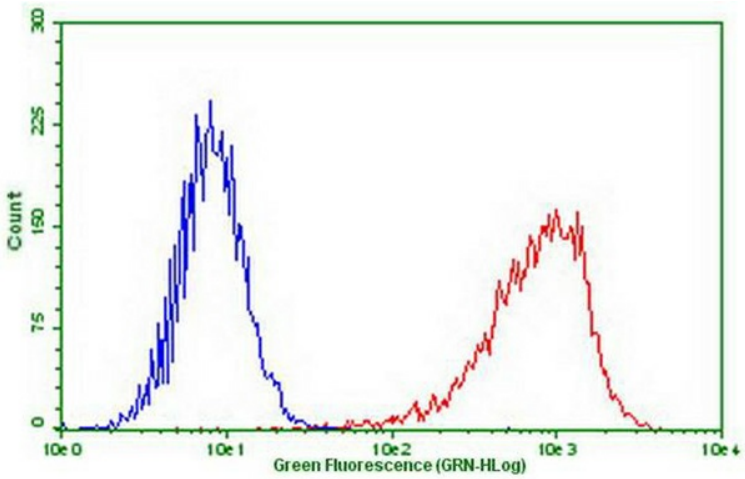
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PDCD1 ([RC210364], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PDCD1. Positive lysates [LY401555] (100ug) and [LC401555]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



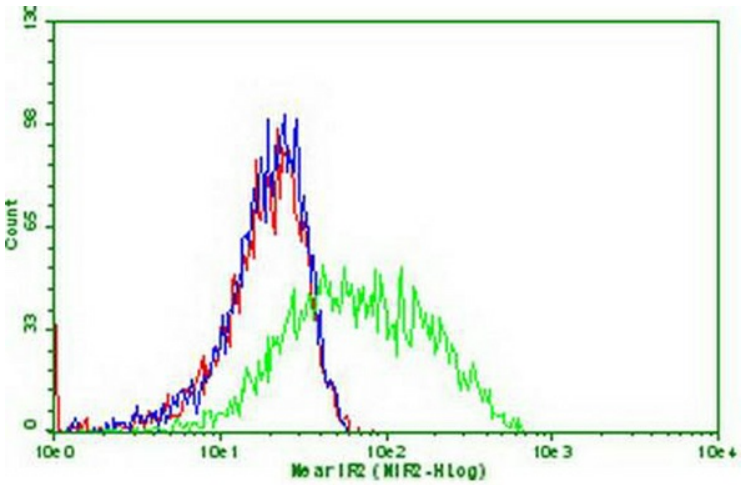
Immunofluorescent staining of PDCD1 ([RC210364])-stable-transfected HEK293T cells (left) labeling PDCD1 with mouse monoclonal antibody [TA806929] (green) and nucleus with Hoechst33342 (blue). HEK293T cells serve as negative control (right) (1:100).



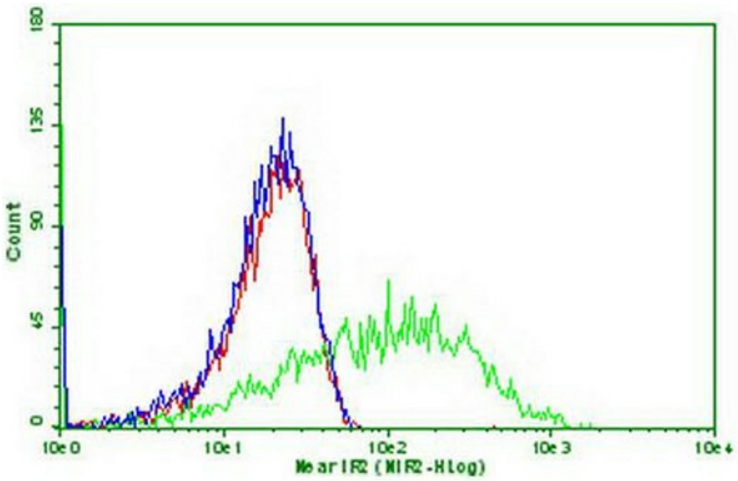
Immunocytochemistry staining of stable expression PD1 cells using anti-PDCD1 mouse monoclonal antibody ([TA806929]) (Left). The rihgt is negative control. (1:100) (1:900)



Flow cytometric Analysis of stable expression PD1 cells using anti-PDCD1 antibody ([TA806929]) (Red) compared to a nonspecific negative control antibody (Blue) (1:50).



Flow cytometric Analysis of stable expression PDL1 ([RC213071]) cells using anti-PDCD1 antibody ([TA806929]) (blue) or 0.3ug/ml PD1-Fc fusion protein ([TP700199]) (green) or both (red), and detected by anti-Fc (human) IgG-FITC (1:50).



Flow cytometric Analysis of PDL2 ([RC224141]) transilently transfected HEK293T cells using anti-PDCD1 antibody ([TA806929]) (blue) or 1ug/ml PD1-Fc fusion protein ([TP700199]) (green) or both (red), and detected by anti-Fc (human) IgG-FITC (1:50).