

## Product datasheet for **TA806929AM**

### PD1 (PDCD1) Mouse Monoclonal Antibody (Biotin conjugated) [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:          | 0.5 mg/ml                                                                                                 |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| Conjugation:            | Biotin                                                                                                    |
| 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:          | <a href="#">NP_005009</a><br><a href="#">Entrez Gene 5133 Human</a><br><a href="#">Q15116</a>             |



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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:**

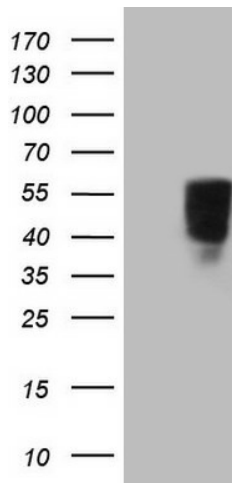
CD279; hPD-1; hPD-I; hSLE1; PD-1; PD1; SLEB2

**Protein Families:**

Druggable Genome, Transmembrane

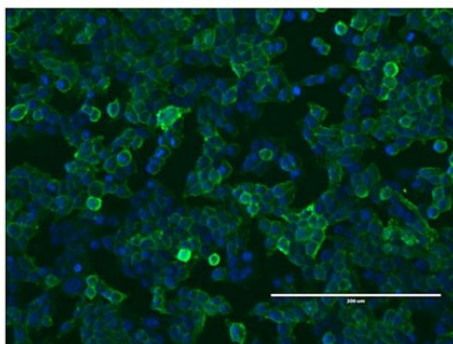
**Protein Pathways:**

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

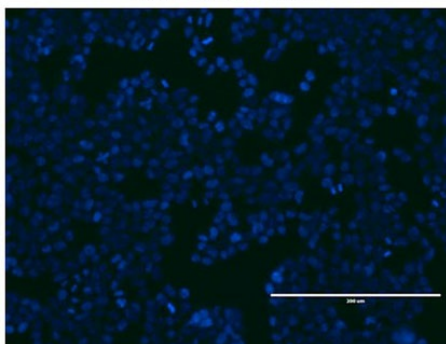
**Product images:**


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.

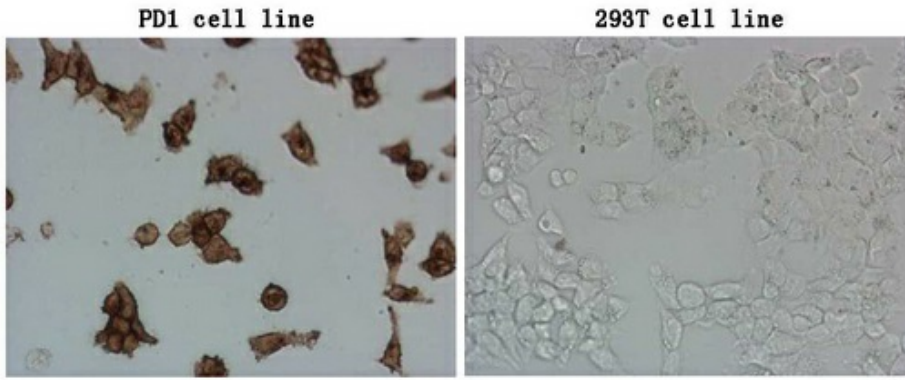
PD1 cell line



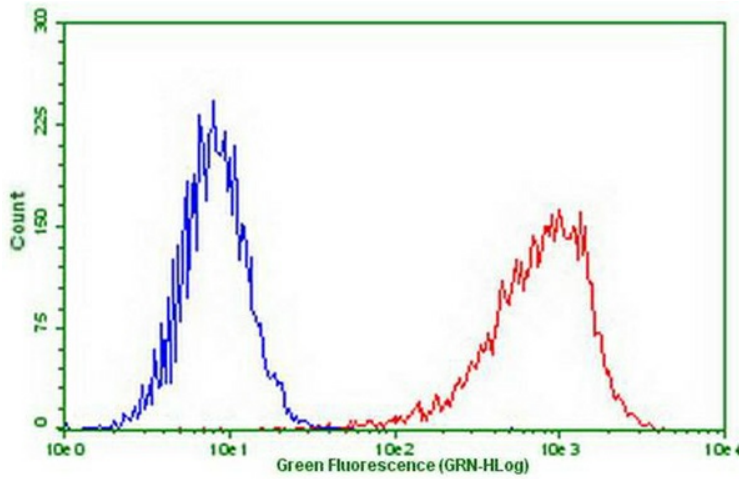
293T cell line



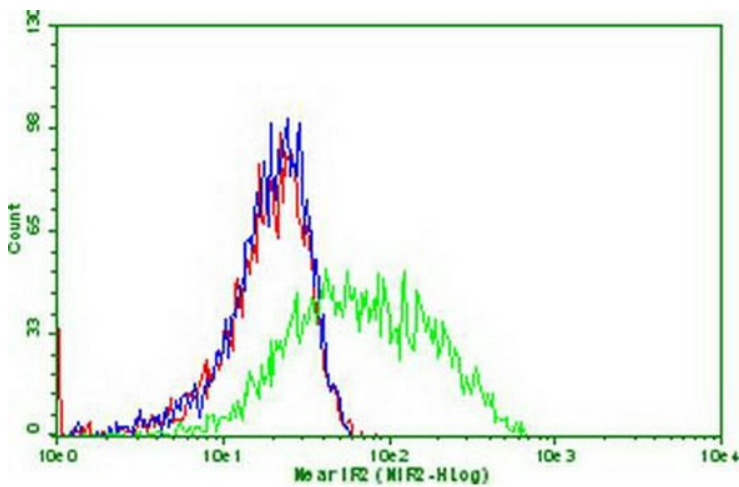
Immunofluorescent staining of PDCD1 ([RC210364])-stable-transfected HEK293T cells (left) labeling PDCD1 with mouse monoclonal antibody [TA806929] (green) and nucleus with Hoechst33342 (blue). HEK293T cells serve as negative control (right) (1:100).



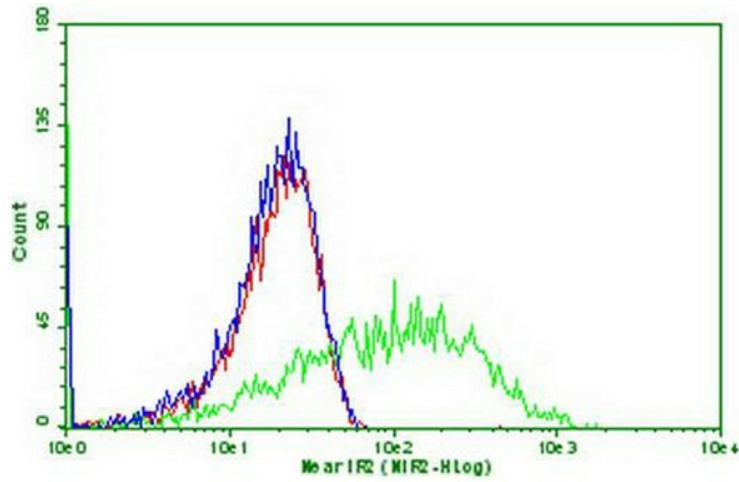
Immunocytochemistry staining of stable expression PD1 cells using anti-PDCD1 mouse monoclonal antibody ([TA806929]) (Left). The right is negative control. (1:100) (1:900)



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]) transiently 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).