

**PD1 / PDCD1 / CD279 (Programmed Cell Death 1) Antibody - With BSA and Azide**  
**Mouse Monoclonal Antibody [Clone PDCD1/922 ]**  
**Catalog # AH12053**

**Specification**

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**PD1 / PDCD1 / CD279 (Programmed Cell Death 1) Antibody - With BSA and Azide -  
Product Information**

|                   |   |
|-------------------|---|
| Application       | ,2,3,4,                                       |
| Primary Accession | <a href="#">O15116</a>                        |
| Other Accession   | <a href="#">5133</a> , <a href="#">158297</a> |
| Reactivity        | Human   |
| Host              | Mouse   |
| Clonality         | Monoclonal                                    |
| Isotype           | Mouse / IgG1, kappa                           |
| Calculated MW     | 55kDa KDa                                     |

**PD1 / PDCD1 / CD279 (Programmed Cell Death 1) Antibody - With BSA and Azide -  
Additional Information**

**Gene ID** 5133

**Other Names**

Programmed cell death protein 1, Protein PD-1, hPD-1, CD279, PDCD1, PD1

**Storage**

Store at 2 to 8°C. Antibody is stable for 24 months.

**Precautions**

PD1 / PDCD1 / CD279 (Programmed Cell Death 1) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

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Protein Information**

**Name** PDCD1 {ECO:0000303|PubMed:7851902, ECO:0000312|HGNC:HGNC:8760}

**Function**

Inhibitory receptor on antigen activated T-cells that plays a critical role in induction and maintenance of immune tolerance to self (PubMed:<a href="http://www.uniprot.org/citations/21276005" target="\_blank">21276005</a>). Delivers inhibitory signals upon binding to ligands CD274/PDCD1L1 and CD273/PDCD1LG2 (PubMed:<a href="http://www.uniprot.org/citations/21276005" target="\_blank">21276005</a>). Following T-cell receptor (TCR) engagement, PDCD1 associates with CD3-TCR in the immunological synapse and directly inhibits T-cell activation (By similarity). Suppresses T-cell activation through the recruitment of PTPN11/SHP-2: following ligand-binding, PDCD1 is phosphorylated within the ITSM motif, leading to the recruitment of the protein tyrosine phosphatase PTPN11/SHP-2 that mediates dephosphorylation of key TCR proximal signaling molecules, such as ZAP70, PRKCQ/PKCtheta and CD247/CD3zeta (By similarity).

### Cellular Location

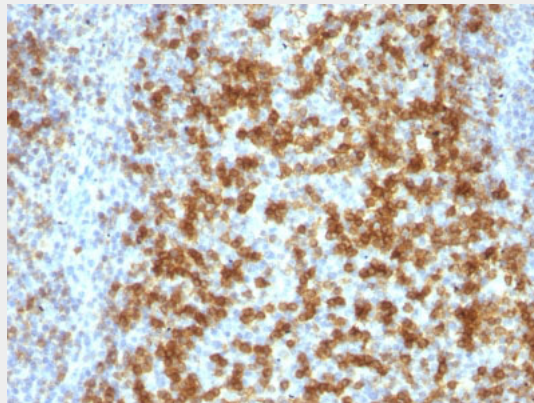
Cell membrane; Single-pass type I membrane protein

### PD1 / PDCD1 / CD279 (Programmed Cell Death 1) Antibody - With BSA and Azide - Protocols

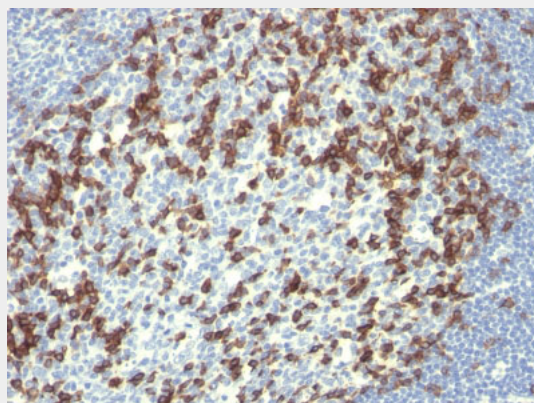
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### PD1 / PDCD1 / CD279 (Programmed Cell Death 1) Antibody - With BSA and Azide - Images



Formalin-fixed, paraffin-embedded human Tonsil stained with PD1 (CD279) Monoclonal Antibody (PDCD1/922).



Formalin-fixed, paraffin-embedded human Tonsil stained with PD1 (CD279) Monoclonal Antibody (PDCD1/922).

### PD1 / PDCD1 / CD279 (Programmed Cell Death 1) Antibody - With BSA and Azide - Background

PDCD-1 (programmed cell death-1 protein), also designated CD279, is a type I transmembrane

receptor and a member of the immunoglobulin gene superfamily. It is expressed on activated T-cells, B-cells, and myeloid cells. Anti-PDCD-1 is a marker of angioimmunoblastic lymphoma and suggests a unique cell of origin for this neoplasm. Unlike CD10 and BCL6, PDCD-1 is expressed by few B-cells, so anti-PDCD-1 may be a more specific and useful diagnostic marker in angioimmunoblastic lymphoma. In addition, PDCD-1 expression provides evidence that angioimmunoblastic lymphoma is a neoplasm derived from germinal center-associated T-cells.

**PD1 / PDCD1 / CD279 (Programmed Cell Death 1) Antibody - With BSA and Azide -  
References**

Ishida, Y., et al. 1992. Induced expression of PD-1, a novel member of the immunoglobulin gene superfamily, upon programmed cell death. EMBO J. 11: 3887-3895. |