

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

**Specification**

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

Application	IHC, IF, FC
Primary Accession	<a href="#">Q15116</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

**Application Note**

IHC~~1:100~500  
IF~~1:50~200  
FC~~1:10~50

**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.

**PD1 / PDCD1 / CD279 (Programmed Cell Death 1) Antibody - With BSA and Azide -  
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:[21276005](http://www.uniprot.org/citations/21276005), PubMed:[37208329](http://www.uniprot.org/citations/37208329)). Delivers inhibitory signals upon binding to ligands CD274/PDCD1L1 and CD273/PDCD1LG2 (PubMed:[21276005](http://www.uniprot.org/citations/21276005)). 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

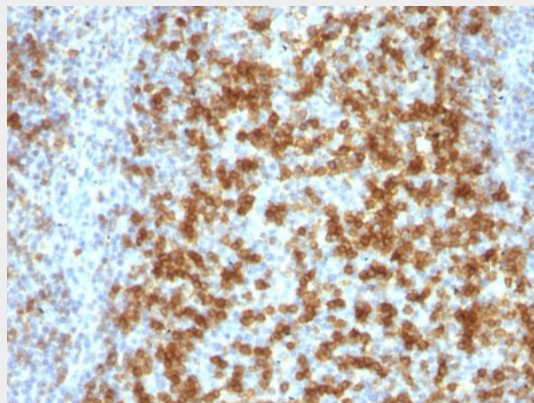
Cell membrane; Single-pass type I membrane protein

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

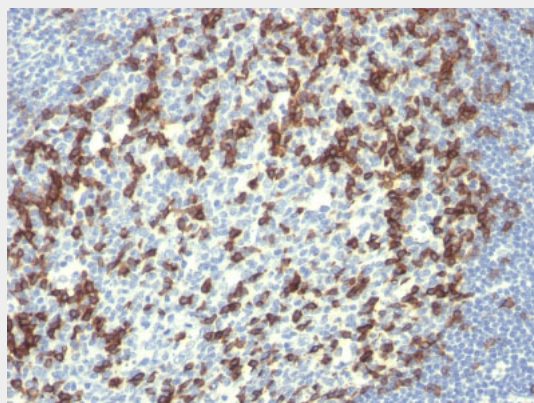
Provided below are standard protocols that you may find useful for product applications.

- [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. |