10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-PDCD1 / PD1 / CD279 (Programmed Cell Death 1) Antibody
Recombinant Rabbit Monoclonal Antibody
Catalog # AH13422

Specification

Anti-PDCD1 / PD1 / CD279 (Programmed Cell Death 1) Antibody - Product Information

Application	**IHC-P, IF, FC**
Primary Accession	Q15116
Other Accession	158297
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Monoclonal**
Isotype	**Rabbit / IgG**
Calculated MW	**31647**

Anti-PDCD1 / PD1 / CD279 (Programmed Cell Death 1) Antibody - Additional Information

Gene ID 5133

Other Names
CD279; hPD-1; hSLE1; PD1; PDCD1; Programmed Cell Death Protein 1; Protein PD-1; SLEB2; Systemic lupus erythematosus susceptibility 2

Application Note
IHC-P~~N/A<br \>IF~~1:50~200<br \>FC~~1:10~50

Format
200ug/ml of Ab purified by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

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

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

Anti-PDCD1 / PD1 / CD279 (Programmed Cell Death 1) Antibody - 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, PubMed:37208329). Delivers inhibitory signals upon binding to ligands CD274/PDCD1L1 and CD273/PDCD1LG2 (PubMed:<a

href="http://www.uniprot.org/citations/21276005" target="_blank">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).

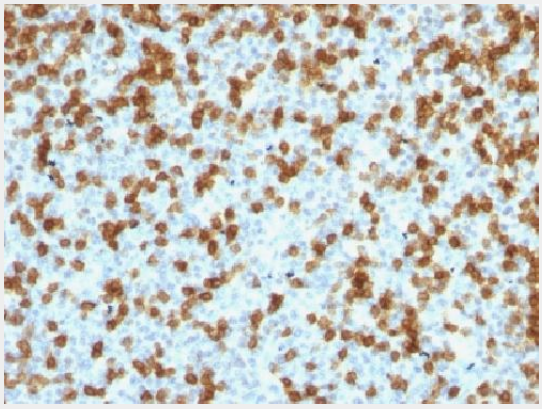
Cellular Location
Cell membrane; Single-pass type I membrane protein

Anti-PDCD1 / PD1 / CD279 (Programmed Cell Death 1) Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-PDCD1 / PD1 / CD279 (Programmed Cell Death 1) Antibody - Images



Formalin-fixed, paraffin-embedded human Tonsil stained with PD1 (CD279) Recombinant Rabbit Monoclonal Antibody (PDCD1/1410R).

Anti-PDCD1 / PD1 / CD279 (Programmed Cell Death 1) Antibody - Background

PDCD-1 (programmed cell death-1 protein), also designated CD279, is a type I transmembrane receptor and a member of the immunoglobin 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.