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

PDCD1 / CD279 / PD-1 Antibody (C-Terminus)

Rabbit Polyclonal Antibody
Catalog # ALS11431

Specification

PDCD1 / CD279 / PD-1 Antibody (C-Terminus) - Product Information

Application	**IF**
Primary Accession	Q15116
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**32kDa KDa**

PDCD1 / CD279 / PD-1 Antibody (C-Terminus) - Additional Information

Gene ID 5133

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

Target/Specificity
16 amino acid peptide from near the carboxy terminus of human PDCD1.

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions
PDCD1 / CD279 / PD-1 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

PDCD1 / CD279 / PD-1 Antibody (C-Terminus) - 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). Delivers inhibitory signals upon binding to ligands CD274/PDCD1L1 and CD273/PDCD1LG2 (PubMed: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

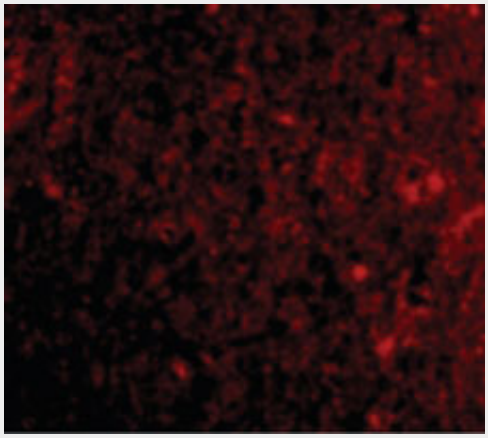
Cell membrane; Single-pass type I membrane protein

PDCD1 / CD279 / PD-1 Antibody (C-Terminus) - 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

PDCD1 / CD279 / PD-1 Antibody (C-Terminus) - Images



Immunofluorescence of PD-1 in Human Brain cells with PD-1 antibody at 20 ug/ml.

PDCD1 / CD279 / PD-1 Antibody (C-Terminus) - Background

Inhibitory cell surface receptor involved in the regulation of T-cell function during immunity and tolerance. Upon ligand binding, inhibits T-cell effector functions in an antigen- specific manner. Possible cell death inducer, in association with other factors.

PDCD1 / CD279 / PD-1 Antibody (C-Terminus) - References

Shinohara T.,et al.Genomics 23:704-706(1994).
Finger L.R.,et al.Gene 197:177-187(1997).
Finger L.R.,et al.Gene 203:253-253(1997).
Prokunina L.,et al.Nat. Genet. 32:666-669(2002).
He X.,et al.Submitted (FEB-2003) to the EMBL/GenBank/DDBJ databases.