

Anti-PDCD1 / CD279 / PD-1 Antibody (clone 4E5)
Mouse Anti Human Monoclonal Antibody
Catalog # ALS17346**Specification****Anti-PDCD1 / CD279 / PD-1 Antibody (clone 4E5) - Product Information**

Application	WB, IHC-P, IF, FC
Primary Accession	Q15116
Predicted	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	31647
Dilution	WB~~1:1000 IHC-P~~N/A IF~~1:50~200 FC~~1:10~50

Anti-PDCD1 / CD279 / PD-1 Antibody (clone 4E5) - Additional Information**Gene ID** 5133**Alias Symbol** **PDCD1****Other Names**

PDCD1, CD279, HPD-1, HPD-I, PD1, Protein PD-1, SLEB2, PD-1, CD279 antigen, Programmed cell death 1

Target/Specificity

Human PDCD1 / CD279 / PD-1

Reconstitution & Storage

PBS, pH 7.3, 1% BSA, 50% glycerol, 0.02% sodium azide Store at -20°C. Minimize freezing and thawing.

Precautions

Anti-PDCD1 / CD279 / PD-1 Antibody (clone 4E5) is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-PDCD1 / CD279 / PD-1 Antibody (clone 4E5) - 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: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 / CD279 / PD-1 Antibody (clone 4E5) - 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](#)

Anti-PDCD1 / CD279 / PD-1 Antibody (clone 4E5) - Images