

# Anti-CD279 Antibody

Catalog # AP95568

## Product Information

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|-------------------|------------------------------|
| Application       | FC, IF/IC                    |
| Primary Accession | <a href="#">Q15116</a>       |
| Reactivity        | Human                        |
| Host              | Mouse                        |
| Clonality         | Monoclonal (clone: 4A5C4.B8) |
| Calculated MW     | 31647                        |

## Additional Information

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| Gene ID            | 5133                                                             |
| Other Names        | PD1; Programmed cell death protein 1; Protein PD-1; hPD-1; CD279 |
| Target/Specificity | Native purified human CD279                                      |
| Dilution           | FC~~1:10~50 IF/IC~~N/A                                           |
| Format             | Mouse IgG1 kappa. Liquid in PBS, pH 7.3, and 0.02% sodium azide. |
| Storage            | Store at -20 °C.Stable for 12 months from date of receipt        |

## Protein Information

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| 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="#">21276005</a> , PubMed: <a href="#">31754127</a> , PubMed: <a href="#">32184441</a> , PubMed: <a href="#">37208329</a> ). Delivers inhibitory signals upon binding to ligands CD274/PDCD1L1 and CD273/PDCD1LG2 (PubMed: <a href="#">21276005</a> , PubMed: <a href="#">26602187</a> ). Following T-cell receptor (TCR) engagement, PDCD1 associates with TCR-CD3 in the immunological synapse and directly inhibits T-cell activation (PubMed: <a href="#">32184441</a> ). 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 (PubMed: <a href="#">32184441</a> ). |
| Cellular Location | Cell membrane; Single-pass type I membrane protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.