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# Anti-CD279-AcalephFluor555-labled

Catalog # AP100405

## Product Information

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|---|---|
| **Application** | FC, IF/IC |
| **Primary Accession** | Q15116 |
| **Reactivity** | Human |
| **Clonality** | Monoclonal |
| **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** | Recognizes human CD279 |
| **Dilution** | FC~~1:10~50 IF/IC~~N/A |
| **Format** | Mouse IgG1 kappa. Liquid in PBS, pH 7.3, 0.2% BSA, 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:21276005, PubMed:31754127, PubMed:32184441, PubMed:37208329). Delivers inhibitory signals upon binding to ligands CD274/PDCD1L1 and CD273/PDCD1LG2 (PubMed:21276005, PubMed:26602187). Following T-cell receptor (TCR) engagement, PDCD1 associates with TCR-CD3 in the immunological synapse and directly inhibits T-cell activation (PubMed:32184441). 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:32184441). |
| **Cellular Location** | Cell membrane; Single-pass type I membrane protein |

## Background

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