# Active Recombinant Human PDCD1 Protein, MIgG2a mFc-tagged, Alexa Fluor 488 conjugated

**Cat. No.** PDCD1-031HAF488 **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | The Alexa Fluor 488 conjugated extracellular domain of human CD279 [PD-1] (NP_005009.2) (Leu25-Gln167) is fused to the N-terminus of the Fc region of mouse IgG2a.E351 |
| **Species** | Human |
| **Source** | CHO |
| **ProteinLength** | 25-167 a.a. |
| **Description** | This gene encodes a cell surface membrane protein of the immunoglobulin superfamily. This protein is expressed in pro-B-cells and is thought to play a role in their differentiation. In mice, expression of this gene is induced in the thymus when anti-CD3 antibodies are injected and large numbers of thymocytes undergo apoptosis. Mice deficient for this gene bred on a BALB/c background developed dilated cardiomyopathy and died from congestive heart failure. These studies suggest that this gene product may also be important in T cell function and contribute to the prevention of autoimmune diseases. |
| **Form** | Lyophilized |
| **Bio-activity** | Measured by its binding ability in a functional ELISA. |
| **Molecular Mass** | 46 kDa (monomer) |

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| **AA Sequence** | Leu25-Gln167 |
| **Endotoxin** | < 0.06 EU/ μg as determined by LAL test. |
| **Purity** | > 98 % by SDS-PAGE under reducing conditions. |
| **Characteristic** | Disulfide-linked homodimer<br>Labeled with Alexa Fluor 488 via amines<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm |
| **Stability** | Stable for at least 1 year after receipt when stored at -20 centigrade. Working aliquots are stable for up to 3 months when stored at -20 centigrade. |
| **Concentration** | 100 μg/mL |
| **Storage Buffer** | Lyophilized from 0.2 μm filtered solution in PBS. |
| **Reconstitution** | Reconstitute at 100 μg/mL in sterile PBS. |
| **Conjugation** | Alexa Fluor 488 |

## GENE INFORMATION

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| **Gene Name** | PDCD1 programmed cell death 1 [ Homo sapiens ] |
| **Official Symbol** | PDCD1 |
| **Synonyms** | PDCD1; programmed cell death 1; programmed cell death protein 1; CD279; PD1; protein PD-1; PD-1; SLEB2; hPD-1; hPD-l; |

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| **Gene ID** | 5133 |
| **mRNA Refseq** | NM_005018 |
| **Protein Refseq** | NP_005009 |
| **MIM** | 600244 |
| **UniProt ID** | Q15116 |

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