

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 Labeled with Alexa Fluor 488 via amines Excitation Wavelength: 488 nm 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-I; |

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

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