

# Recombinant Human PDCD1 Protein, Fc-tagged, Alexa Fluor 647 conjugated

**Cat. No.** PDCD1-188HAF647    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | The Alexa Fluor 647 conjugated extracellular domain of human CD279 [PD-1] (aa 25-167) is fused to the N-terminus of the Fc region of human IgG1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | CHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Protein Length</b>   | 25-167 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | CD279 (Programmed Cell Death Protein 1; PD-1) is a type I transmembrane protein belonging to the CD28/CTLA-4 family of immunoreceptors that mediate signals for regulating immune responses. Members of the CD28/CTLA-4 family have been shown to either promote T cell activation (CD28 and ICOS) or downregulate T cell activation (CTLA-4 and PD-1). CD279 is expressed on activated T cells, B cells, myeloid cells and on a subset of thymocytes. In vitro, ligation of CD279 inhibits TCR-mediated T cell proliferation and production of IL-1, IL-4, IL-10 and IFN-gamma. In addition, CD279 ligation also inhibits BCR mediated signaling. CD279 deficient mice have a defect in peripheral tolerance and spontaneously develop autoimmune diseases. |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>           | ≥98 % by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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|                       |                                                                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Characteristic</b> | Disulfide-linked homodimer<br>Labeled with Alexa Fluor 647 via amines<br>Excitation = 650 nm<br>Emission = 668 nm                                     |
| <b>Stability</b>      | 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. |
| <b>Storage</b>        | Short Term Storage: +4 centigrade; Long Term Storage: -20 centigrade. Avoid freeze/thaw cycles.                                                       |
| <b>Storage Buffer</b> | Lyophilized from 0.2 µm filtered solution in PBS.                                                                                                     |
| <b>Conjugation</b>    | Alexa Fluor 647                                                                                                                                       |

## GENE INFORMATION

|                        |                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | PDCD1 programmed cell death 1 [ Homo sapiens ]                                                                        |
| <b>Official Symbol</b> | PDCD1                                                                                                                 |
| <b>Synonyms</b>        | PDCD1; programmed cell death 1; programmed cell death protein 1; CD279; PD1; protein PD-1; PD-1; SLEB2; hPD-1; hPD-I; |
| <b>Gene ID</b>         | 5133                                                                                                                  |
| <b>mRNA Refseq</b>     | NM_005018                                                                                                             |
| <b>Protein Refseq</b>  | NP_005009                                                                                                             |
| <b>MIM</b>             | 600244                                                                                                                |

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**UniProt ID**

Q15116

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