Recombinant Human PDCD1 Protein, Fc-tagged, Alexa Fluor 488 conjugated

Cat. No. PDCD1-188HAF488 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The Alexa Fluor 488 conjugatedextracellular domain of human CD279 [PD-1] (aa 25-167) is fused to the N-terminus of the Fc region of human IgG1.
Species	Human
Source	CHO
ProteinLength	25-167 a.a.
Description	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.
Form	Lyophilized
Purity	≥98 % by SDS-PAGE

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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.
Storage	Short Term Storage: +4 centigrade; Long Term Storage: -20 centigrade. Avoid freeze/thaw cycles.
Storage Buffer	Lyophilized from 0.2 μm filtered solution in PBS.
Conjugation	Alexa Fluor 488

GENE INFORMATION

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;
Gene ID	5133
mRNA Refseq	NM_005018
Protein Refseq	NP_005009
MIM	600244

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UniProt ID	Q15116

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