

## Active Recombinant Human PDCD1 Protein, MIgG2a mFc-tagged, Alexa Fluor 647 conjugated

Cat. No. PDCD1-031HAF647 Lot. No. (See product label)

### SPECIFICATION

**Product Overview** The Alexa Fluor 647 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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<b>AA Sequence</b>	Leu25-Gln167
<b>Endotoxin</b>	< 0.06 EU/ µg as determined by LAL test.
<b>Purity</b>	> 98 % by SDS-PAGE under reducing conditions.
<b>Characteristic</b>	Disulfide-linked homodimer Labeled with Alexa Fluor 647 via amines Excitation = 650 nm 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>Concentration</b>	100 µg/mL
<b>Storage Buffer</b>	Lyophilized from 0.2 µm filtered solution in PBS.
<b>Reconstitution</b>	Reconstitute at 100 µg/mL in sterile 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;

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

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