

Recombinant Human PDCD1

Cat. No. PDCD1-29487TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human PD1 with proprietary tag at the N terminal; Predicted MW 37.73 kDa, inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	110 amino acids
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/cbackground 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.
Molecular Weight	37.730kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MQIPQAPWPVWVAVLQLGWRPGWFLDSPDRPWNPPPTFFPA LLVVTEGDNATFTCSFSNTSESFVLNWYRMSPSNQTDKLA AFPEDRSQPGQDCRFRVTQLPNGRDFHMSV
Sequence Similarities	Contains 1 Ig-like V-type (immunoglobulin-like) domain.
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;
Gene ID	5133
mRNA Refseq	NM_005018
Protein Refseq	NP_005009
MIM	600244
Uniprot ID	Q15116
Chromosome Location	2q37.3
Pathway	Adaptive Immune System, organism-specific biosystem; Cell adhesion molecules

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(CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Costimulation by the CD28 family, organism-specific biosystem; Immune System, organism-specific biosystem;

Function

protein binding; protein tyrosine phosphatase activity; signal transducer activity;

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