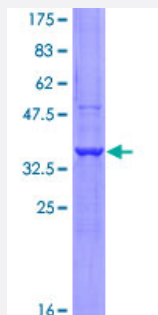


PDCD1 (Human) Recombinant Protein (Q01)

Catalog # H00005133-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PDCD1 partial ORF (NP_005009, 1 a.a. - 110 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MQIPQAPWPVVWAVLQLGWRPGWFLDSPDRPWNPTFFPALLVVTEGDNATFTCSFSNTSESV VLNWYRMSPSNQTDKLAAPEDRSQPGQDCRFRVTQLPNGRDFHMSV
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.84
Interspecies Antigen Sequence	Mouse (59); Rat (60)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PDCD1

Entrez GeneID [5133](#)

GeneBank Accession# [NM_005018](#)

Protein Accession# [NP_005009](#)

Gene Name PDCD1

Gene Alias CD279, PD1, SLEB2, hPD-1, hPD-I

Gene Description programmed cell death 1

Omim ID [152700](#) [600244](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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 number s 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 th at this gene product may also be important in T cell function and contribute to the prevention of aut oimmune diseases. [provided by RefSeq

Other Designations -

Publication Reference

- [Multicenter validation study of anti-programmed cell death-1 antibody as a serological marker for type 1 autoimmune hepatitis.](#)

Miyake Y, Yamamoto K, Matsushita H, Abe M, Takahashi A, Umemura T, Tanaka A, Nakamuta M, Nakamoto Y, Ueno Y, Saibara T, Takikawa H, Yoshizawa K, Ohira H, Zeniya M, Onji M, Tsubouchi H.

Hepatology Research 2014 Dec; 44(13):1299.

Application: ELISA, Human, Serum

- [Anti-programmed cell death-1 antibody as a new serological marker for type 1 autoimmune hepatitis.](#)

Matsumoto K, Miyake Y, Matsushita H, Ohnishi A, Ikeda F, Shiraha H, Takaki A, Nouse K, Yamamoto K.

Journal of Gastroenterology and Hepatology 2014 Jan; 29(1):110.

Application: ELISA, Human, Serum

Pathway

- [Cell adhesion molecules \(CAMs\)](#)
- [T cell receptor signaling pathway](#)

Disease

- [Addison Disease](#)
- [Alveolitis](#)
- [Arthritis](#)
- [Autoimmune Diseases](#)
- [Carcinoma](#)
- [Choriocarcinoma](#)
- [Colitis](#)
- [Crohn Disease](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)

- [Genetic Predisposition to Disease](#)
- [Graves Disease](#)
- [Hydatidiform Mole](#)
- [Inflammation](#)
- [Kidney Diseases](#)
- [Leukemia](#)
- [Liver Cirrhosis](#)
- [Lupus Erythematosus](#)
- [Lupus Nephritis](#)
- [Mucocutaneous Lymph Node Syndrome](#)
- [Multiple Sclerosis](#)
- [Myocardial Infarction](#)
- [Neovascularization](#)
- [Polyendocrinopathies](#)
- [Spondylitis](#)
- [Uterine Cervical Neoplasms](#)
- [Uveomeningoencephalitic Syndrome](#)
- [Vasculitis](#)
- [Wegener Granulomatosis](#)