

Bioactive

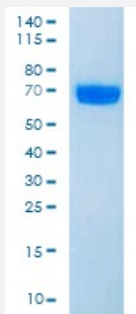
HuPro®

PDCD1 (Human) Recombinant Protein

Catalog # P6734

Size 100 ug

Applications



This protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 65-72 kDa.

Result of bioactivity analysis

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Immobilized PDCD1 (Human) Recombinant Protein (Cat # P6734) at 0.5 ug/mL (100 uL/well), dose response curve for Anti-PD1 Ab with the EC₅₀ of 160 ng/mL determined by ELISA.

Specification

Product Description	Human PDCD1 (Q8IX89, 25 a.a. - 167 a.a.) partial recombinant protein with Fc tag at C-terminal expressed in HEK293 cells.
Host	Human
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Protein A purification
Purity	> 95% by SDS-PAGE.
Endotoxin Level	< 0.1 EU/ug of the protein by LAL method.

Activity	Immobilized PDCD1 (Human) Recombinant Protein (Cat # P6734) at 0.5 ug/mL (100 uL/well), dose response curve for Anti-PD1 Ab with the ECsub>50 of 160 ng/mL determined by ELISA.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue This protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 65-72 kDa.
Recommend Usage	SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 0.22 um filtered solution of PBS, pH 7.4.
Storage Instruction	Store the lyophilized protein at -20°C to -80°C for long term. After reconstitution with a concentration of 0.1-0.5 mg/mL in sterile distilled water, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis Result of bioactivity analysis Immobilized PDCD1 (Human) Recombinant Protein (Cat # P6734) at 0.5 ug/mL (100 uL/well), dose response curve for Anti-PD1 Ab with the ECsub>50 of 160 ng/mL determined by ELISA.

Applications

- SDS-PAGE

Gene Info — PDCD1

Entrez GeneID	5133
Protein Accession#	Q8IX89
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 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. [provided by RefSeq]

Other Designations

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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](#)