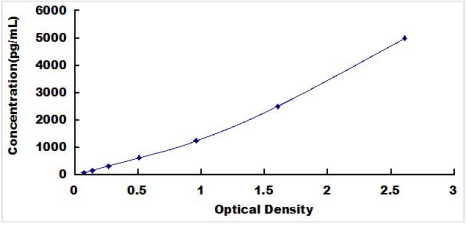
Programmed Cell Death Protein 1 (PD1) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	Programmed Cell Death Protein 1 (PD1), ELISA Kit
Full Product Name	Mouse Programmed Cell Death Protein 1 (PD1) ELISA Kit
Product Gene Name	PD1 elisa kit
Product Synonym Names	CD279; PDCD1; SLEB2; HPD1P; PD1/Programmed Cell Death Protein 1
Species Reactivity	Mouse
Assay Type	Quantitative Sandwich
Samples	Mouse tissue homogenates, cell lysates and other biological fluids
Detection Range	78-5,000pg/mL
Sensitivity	< 32pg/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of PD1. No significant cross-reactivity or interference between PD1 and analogues was observed.
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (within shelf life) Shelf Life: 8 months The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level PD1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level PD1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	31,842 Da
3D Structure	ModBase 3D Structure for Q02242
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Product Categories/Family for PD1 elisa kit	Apoptosis; Immune molecule; Endocrinology; Autoimmunity
ISO Certification	Manufactured in an ISO 9001:2008 and ISO 13485:2003 Certified Laboratory.
Application Notes for PD1 elisa kit	Enzyme-linked immunosorbent assay for Antigen Detection.
Related Product Information for PD1 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to PD1. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to PD1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain PD1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of PD1 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of PD1 in mouse tissue homogenates, cell lysates and other biological fluids.

Other Notes	Small volumes of PD1 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PD1 purchase	MBS2709862 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Programmed Cell Death Protein 1 (PD1) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing PD1. The ELISA analytical biochemical technique of the MBS2709862 kit is based on PD1 antibody-PD1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect PD1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, PD1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of PD1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PD1. It may not necessarily be applicable to this product.

NCBI GI #	400743
NCBI GeneID	18566
NCBI Accession #	Q02242.1
UniProt Primary Accession #	Q02242
UniProt Related Accession #	Q02242
NCBI Official Full Name	Programmed cell death protein 1
NCBI Official Synonym Full Names	programmed cell death 1
NCBI Official Symbol	Pdcd1
NCBI Official Synonym Symbols	PD-1; Pdc1; Ly101
UniProt Protein Name	Programmed cell death protein 1
UniProt Synonym Protein Names	CD_antigen: CD279
UniProt Gene Name	Pdcd1
UniProt Synonym Gene Names	Pd1; Protein PD-1; mPD-1
UniProt Entry Name	PDCD1_MOUSE
NCBI Protein Information	programmed cell death protein 1; mPD-1; protein PD-1

UniProt Comments for PD1	PDCD1: a single-pass type I membrane protein. A negative regulator of activated T cells, is upregulated in human and mouse 'exhausted' T cells during persistent viral infection. A marker of angioimmunoblastic T-cell lymphoma and germinal center associated T cells. Protein type: Apoptosis; Membrane protein, integral Cellular Component: external side of plasma membrane; plasma membrane Molecular Function: protein binding Biological Process: negative regulation of apoptosis; negative regulation of tolerance induction; positive regulation of apoptosis
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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