

Human PD-1/PDCD1 ELISA Kit | PD-1/PDCD1 elisa kit

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CATALOG #
AAA258358

REACTIVITY
Human

PRODUCT SYNONYMS

PD-1/PDCD1; Human PD-1/PDCD1 ELISA Kit; PD-1 ELISA Kit; Human; programmed cell death 1; CD279 ELISA Kit; hPD-1 ELISA Kit; hPD-I ELISA Kit; hSLE1 ELISA Kit; PD1 ELISA Kit; SLEB2 ELISA Kit; PD-1/PDCD1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	For the quantitative determination of Human PD-1/PDCD1 concentration in serum.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum
Detection Range	3.91-250pg/mL
Sensitivity	1.57pg/mL
Conjugation	HRP
Interference	Preparations of the factors listed below at 10ng/mL in a mid-range recombinant human PD1 control were assayed for interference. No significant interference was observed.
Materials Provided	96 well microplate coated with Capture Antibody - Detection Antibody conjugated to HRP - Standards - Wash Buffer Concentrate - Dilution Buffer Concentrate - Color Reagent A - Color Reagent B - Stop Solution

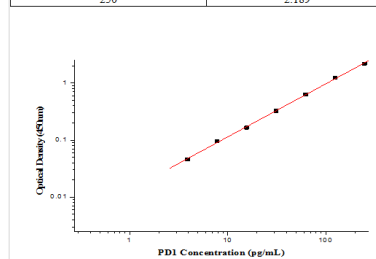
IMAGES

Recombinant human			
B7-H1	CD28	CTLA-4	ICOS
IL1	IL2	IL33	IL10
IL8	PDGF	TNF- α	IL4
IL6	IFN- γ	VEGF	MIP-1 β
TIMP1	TIMP2	GM-CSF	SCF

Application Data

This assay recognizes both recombinant and natural Human PD1. The factors listed below were prepared at 10ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.

Concentration (pg/mL)	Zero standard subtracted OD
0	0
3.91	0.046
7.81	0.096
15.63	0.165
31.25	0.326
62.5	0.630
125	1.249
250	2.189



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for PD-1/PDCD1 elisa kit	This PD-1 ELISA Kit, Human is an enzyme-linked immunosorbent assay for the quantitative measurement of Human PD-1 protein in Serum. It contains recombinant Human PD-1, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: Programmed cell death 1, also known as PDCD1, is a type I transmembrane glycoprotein, and is an immunoreceptor belonging to the CD28/CTLA-4 family negatively regulates antigen receptor signaling by recruiting protein tyrosine phosphatase, SHP-2 upon interacting with either of two ligands, PD-L1 or PD-L2. PD1 inhibits the T-cell proliferation and production of related cytokines including IL-1, IL-4, IL-10 and IFN-gamma by suppressing the activation and transduction of PI3K/AKT pathway. In addition, coligation of PD1 inhibits BCR-mediating signal by dephosphorylating key signal transducer. PD1 has been suggested to be involved in lymphocyte clonal selection and peripheral tolerance, and thus contributes to the prevention of autoimmune diseases. Furthermore, PD1 is shown to be a regulator of virus-specific CD8+ T cell survival in HIV infection. As a cell surface molecule, PDCD1 regulates the adaptive immune response. Engagement of PD-1 by its ligands PD-L1 or PD-L2 transduces a signal that inhibits T-cell proliferation, cytokine production, and cytolytic function.
References	James ES, et al. (2005) PDCD1: a tissue-specific susceptibility locus for inherited inflammatory disorders. Genes Immun. 6(5): 430-7. Okazaki T, et al. (2007) PD-1 and PD-1 ligands: from discovery to clinical application. Int Immunol. 19(7): 813-24. del Rio ML, et al. (2008) PD-1/PD-L1, PD-1/PD-L2, and other co-inhibitory signaling pathways in transplantation. Transpl Int. 21(11): 1015-28. Riley JL.(2009) PD-1 signaling in primary T cells. Immunol Rev. 229(1): 114-25.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/pd-1-pdcd1/258358>