

## Human PD-1 ELISA Kit | PD-1 elisa kit

Human PD-1 ELISA Kit

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|-------------------------------|----------------------------|------------------------------|
| CATALOG #<br><b>AAA332602</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA</b> |
|-------------------------------|----------------------------|------------------------------|

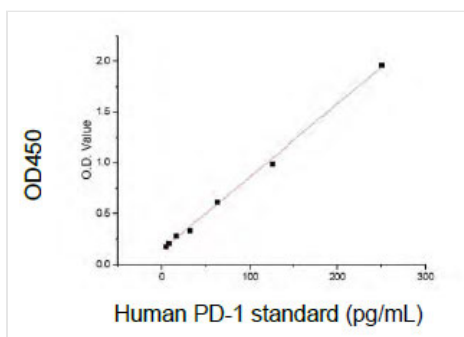
### PRODUCT SYNONYMS

PD-1; Human PD-1 ELISA Kit; Programmed cell death protein 1; hPD-1; PDCD1; CD279; PD-1 elisa kit

### PRODUCT SPECIFICATIONS

|                                            |                                                                                                                                                                                                 |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                 | Human                                                                                                                                                                                           |
| Specificity                                | Human PD-1 ELISA Kit has high sensitivity and excellent specificity for detection of Human PD-1. No significant cross-reactivity or interference between Human PD-1 and analogues was observed. |
| Assay Type                                 | Sandwich                                                                                                                                                                                        |
| Samples                                    | Serum, Plasma, Cell culture supernatants                                                                                                                                                        |
| Detection Range                            | 3.9 pg/mL-250 pg/mL                                                                                                                                                                             |
| Sensitivity                                | 3.9 pg/mL                                                                                                                                                                                       |
| Applicable Applications for PD-1 elisa kit | ELISA                                                                                                                                                                                           |
| Intra-assay Precision                      | Intra-assay Precision: The CV (%)?10%.                                                                                                                                                          |
| Inter-assay Precision                      | Inter-assay Precision :The CV (%)?12%                                                                                                                                                           |
| Preparation and Storage                    | The unopened kit should be stored at 2 - 8 degree C. After opening, please store refer to protocols.                                                                                            |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for PD-1 elisa kit | Principle of the Assay: PD-1 (Programmed cell death protein 1, also known as CD279), is a type I transmembrane protein composed of 288 amino acids, belonging to the B7-CD28 family. PD-1 can be expressed in activated CD4+ T cells, CD8 T cells, B cells, natural killer T cells, monocytes and dendritic cells. In addition, studies have shown that PD-1 is also expressed in regulatory T cells (Treg), and can promote the proliferation of Treg cells and inhibit the immune response. PD-1 is the receptor of PD-L1. After binding with PD-L1, it can recruit tyrosine phosphatase SHP-2 through immunoreceptor tyrosine-based swith motif (ITSM), and then dephosphorylate multiple key molecules in TCR signaling pathway, inhibit the proliferation and activity of CD4T and CD8T cells, and negatively regulate the immune response process of the body.Human PD-1 ELISA Kit employs a double antibody sandwich method to quantitate Human PD-1 in samples. An antibody specific for Human PD-1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any Human PD-1 present is bound by the immobilized antibody. After removing any unbound substances, a HRP-conjugated antibody specific for Human PD-1 is added to the wells. After washing, remove any unbound HRP-conjugated antibody reagent, adding HRP Substrate (TMB), TMB turns blue under the catalysis of HRP, and turns yellow after adding stop solution. Measure the OD value with a microplate reader at 450 nm wavelength. The Human PD-1 concentration is proportional to the OD450 nm value. |
| Product Categories/Family for PD-1 elisa kit   | ELISA Assay Kit; Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

NCBI AND UNIPROT INFORMATION

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| NCBI GI #                        | 145559515                                    |
| NCBI GeneID                      | 5133                                         |
| UniProt Accession #              | Q15116; O00517; Q8IX89                       |
| Molecular Weight                 | 31,647 Da                                    |
| 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    | PD1; PD-1; CD279; SLEB2; hPD-1; hPD-I; hSLE1 |
| NCBI Protein Information         | programmed cell death protein 1              |
| UniProt Protein Name             | Programmed cell death protein 1              |
| UniProt Gene Name                | PDCD1                                        |
| UniProt Synonym Gene Names       | PD1; Protein PD-1; hPD-1                     |

**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.

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Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/pd-1/332602>