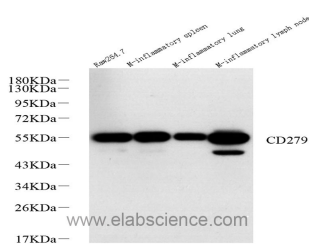


## PD-1/CD279 Polyclonal Antibody

|                     |   |                   |        |
|---------------------|---|-------------------|--------|
| <b>Catalog No.</b>  | E-AB-70227                                  | <b>Reactivity</b> | M      |
| <b>Storage</b>      | Store at -20°C. Avoid freeze / thaw cycles. | <b>Host</b>       | Rabbit |
| <b>Applications</b> | WB  | <b>Isotype</b>    | IgG    |

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Images



Western Blot analysis of various samples using PD-1/CD279 Polyclonal Antibody at dilution of 1:1000.

### Immunogen Information

|                  |  |
|------------------|--|
| <b>Immunogen</b> | Recombinant protein corresponding to Mouse CD279/PD-1                        |
| <b>Swissprot</b> | Q02242   |
| <b>Synonyms</b>  | PDCD1, CD279, PD-1, PD1, SLEB2, hPD-1, hPD-1, hSLE1, Programmed cell death 1 |

### Product Information

|                      |  |
|----------------------|--|
| <b>Calculated MW</b> | 32kDa  |
| <b>Observed MW</b>   | 55kDa  |
| <b>Buffer</b>        | PBS with 0.02% sodium azide, 1% protective protein and 50% glycerol, pH7.4 |
| <b>Purify</b>        | Affinity purification  |
| <b>Dilution</b>      | WB 1:1000-1:2000   |

### Background

Programmed cell death 1 (PD-1, also known as CD279) is an immunoinhibitory receptor that belongs to the CD28/CTLA-4 subfamily of the Ig superfamily. It is a 288 amino acid (aa) type I transmembrane protein composed of one Ig superfamily domain, a stalk, a transmembrane domain, and an intracellular domain containing an immunoreceptor tyrosine-based inhibitory motif (ITIM) as well as an immunoreceptor tyrosine-based switch motif (ITSM). PD-1 is expressed during thymic development and is induced in a variety of hematopoietic cells in the periphery by antigen receptor signaling and cytokines. 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. It is critical for the regulation of T cell function during immunity and tolerance. Blockade of PD-1 can overcome immune resistance and also has been shown to have antitumor activity. The calculated molecular weight of PD-1 is 32 kDa. It has been reported that PD-1 is heavily glycosylated and migrates with an apparent molecular mass of 47-55 kDa on SDS-PAGE.

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Applications: WB-Western Blot IHC-Immunohistochemistry IF-Immunofluorescence IP-Immunoprecipitation FC-Flow cytometry ChIP-Chromatin Immunoprecipitation Reactivity: H-Human R-Rat M-Mouse Mk-Monkey Dg-Dog Ch-Chicken Hm-Hamster Rb-Rabbit Sh-Sheep Pg-Pig Z-Zebrafish X-Xenopus C-Cow.