

## Anti-PD-1 Antibody (2N576)

### Product Details

Ig Type:	Mouse IgG2b
Reactivity:	Rhesus
Conjugation:	Unconjugated
Clone:	2N576
Purification:	Protein A

### Applications

Verified Activity:	Immunochemical staining of rhesus PDCD1 in cynomolgus lymph node with mouse monoclonal antibody at 1:200 dilution, formalin-fixed paraffin embedded sections.
Application:	IHC-P
Recommended	IHC-P: 1:100-1:500

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen:	Recombinant Protein: Rhesus PD-1/PDCD1 Protein (TMPY-00250)
Antigen Species:	Rhesus
Synonyms:	programmed cell death 1;hPD-1;SLEB2;PD-1;PD1;hSLE1;hPD-1;CD279
Biology Area:	ITIM/ITAM Immunoreceptors and Related Molecules, Cancer Drug Targets

### Research 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-mediated 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.

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**Immune Checkpoint Blockade: Blocking Antibody**  
**Immune Checkpoint Blockade: PD1 / PDCD1 / CD279**  
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**Immune Checkpoint Detection: WB Antibodies**  
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**Immunotherapy**  
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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481