



Rabbit Anti-PD-1 antibody

SL1867R

Product Name:	PD-1
Chinese Name:	程序性死亡1抗体
Alias:	CD279; CD279 antigen; hPD 1; hPD 1; hPD-1; hSLE1; PD 1; PD1; PDCD 1; PDCD1; PDCD1_HUMAN; Programmed cell death 1; Programmed cell death protein 1; Protein PD 1; Protein PD-1; SLEB2; Systemic lupus erythematosus susceptibility 2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1µg/testIF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	32kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PD-1:201-288/288
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	This gene encodes a cell surface membrane protein of the immunoglobulin superfamily. This protein is expressed in pro-B-cells and is thought to play a role in their differentiation. In mice, expression of this gene is induced in the thymus when anti-CD3 antibodies are injected and large numbers of thymocytes undergo apoptosis. Mice deficient for this gene bred on a BALB/c background developed dilated cardiomyopathy

and died from congestive heart failure. These studies suggest that this gene product may also be important in T cell function and contribute to the prevention of autoimmune diseases.

CD279 is an immunoglobulin superfamily member, also known as Programmed Cell Death 1. Programmed Cell Death 1 is expressed on a subset of CD4-CD8 thymocytes, and on activated T and B cells. Programmed Cell Death 1 is thought to be involved in lymphocyte clonal selection and peripheral tolerance. The Programmed Cell Death 1 ligands, PDL1 (also known as B7H1) and PDL2 (B7DC), are members of the B7 immunoglobulin superfamily.

Function:

Inhibitory cell surface receptor involved in the regulation of T-cell function during immunity and tolerance. Upon ligand binding, inhibits T-cell effector functions in an antigen-specific manner. Possible cell death inducer, in association with other factors.

Subunit:

Monomer.

Subcellular Location:

Membrane; Single-pass type I membrane protein.

Tissue Specificity:

Ta,Ba,Ma,Thy

DISEASE:

Systemic lupus erythematosus 2 (SLEB2) [MIM:605218]: A chronic, relapsing, inflammatory, and often febrile multisystemic disorder of connective tissue, characterized principally by involvement of the skin, joints, kidneys and serosal membranes. It is of unknown etiology, but is thought to represent a failure of the regulatory mechanisms of the autoimmune system. The disease is marked by a wide range of system dysfunctions, an elevated erythrocyte sedimentation rate, and the formation of LE cells in the blood or bone marrow. {ECO:0000269|PubMed:12402038}. Note=Disease susceptibility is associated with variations affecting the gene represented in this entry.

Similarity:

Contains 1 Ig-like V-type (immunoglobulin-like) domain.

SWISS:

Q15116

Gene ID:

5133

Database links:

[Entrez Gene: 5133](#)Human

[Entrez Gene: 18566](#)Mouse

[Entrez Gene: 301626](#)Rat

[Omim: 600244](#)Human

[SwissProt: Q15116](#)Human

[SwissProt: Q02242](#)Mouse

[Unigene: 158297](#)Human

[Unigene: 5024](#)Mouse

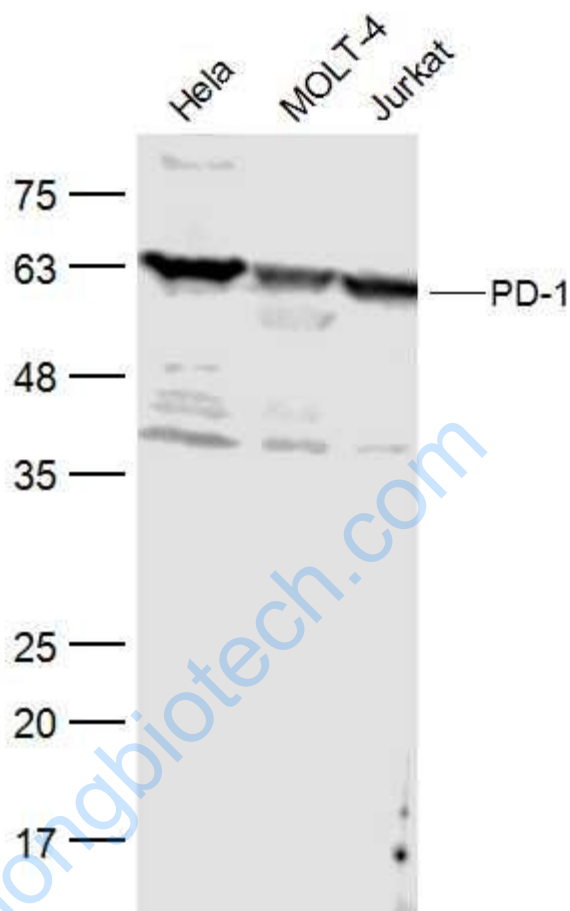
[Unigene: 105023](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

配体为B7H1/PDL1(CD274)和B7DC/PDL2, 抑制活化T细胞的增殖和cell factor的产生, 抑制B细胞功能, 参与免疫耐受

Picture:



Sample:

HeLa(Human) Cell Lysate at 30 ug

MOLT-4(Human) Cell Lysate at 30 ug

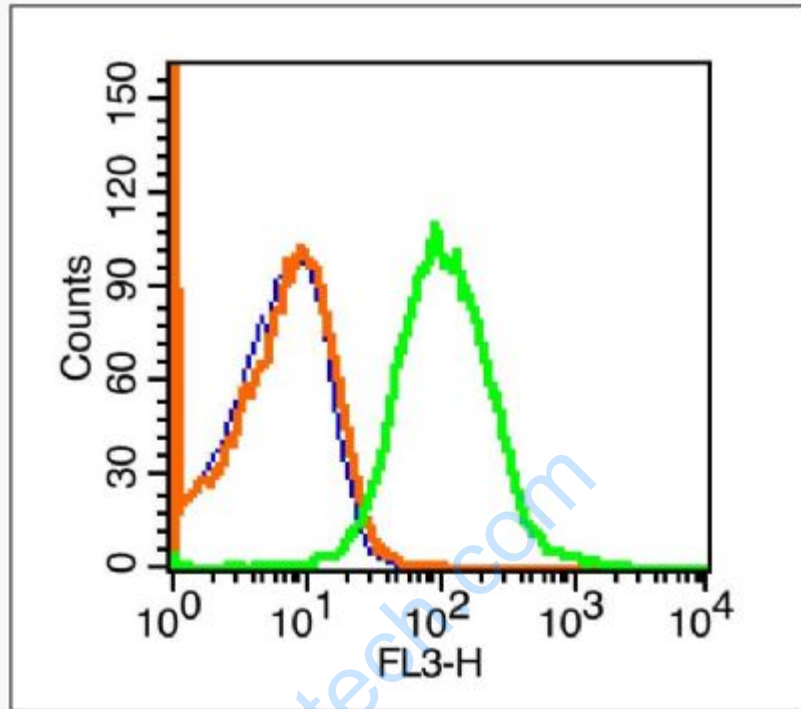
Jurkat(Human) Cell Lysate at 30 ug

Primary: Anti-PD-1 (SL1867R) at 1/500 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 32 kD

Observed band size: 55 kD



Blank control (blue line): Mouse spleen cells(blue).

Primary Antibody (green line): Rabbit Anti-PD-1/PE-CY7 Conjugated antibody (SL1867R)

Dilution: $1\mu\text{g} / 10^6$ cells;

Isotype Control Antibody (orange line): Rabbit IgG-PE-CY7 .

Protocol

The cells were fixed with 70% ice-cold methanol overnight at 4°C . The cells were then incubated in 1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature.Acquisition of 20,000 events was performed.