

Datasheet for ABIN532977  
**anti-PD-1 antibody (AA 21-167)**[Go to Product page](#)

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## Overview

Quantity:	100 µL
Target:	PD-1 (PDCD1)
Binding Specificity:	AA 21-167
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PD-1 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)

## Product Details

Purpose:	Mouse monoclonal antibody raised against partial recombinant PDCD1.
Immunogen:	Recombinant protein corresponding to amino acids 21-167 of human PDCD1.
Clone:	4F12
Isotype:	IgG2b
Cross-Reactivity:	Human

## Target Details

Target:	PD-1 (PDCD1)
Alternative Name:	CD279 / PD1 ( <a href="#">PDCD1 Products</a> )

## Target Details

Gene ID: 5133

Pathways: [Cancer Immune Checkpoints](#)

## Application Details

Application Notes: Western Blot (1:500-1:1000)  
The optimal working dilution should be determined by the end user.

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: In PBS, pH 7.4 (10 % glycerol, 0.02 % sodium azide).

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C, -80 °C

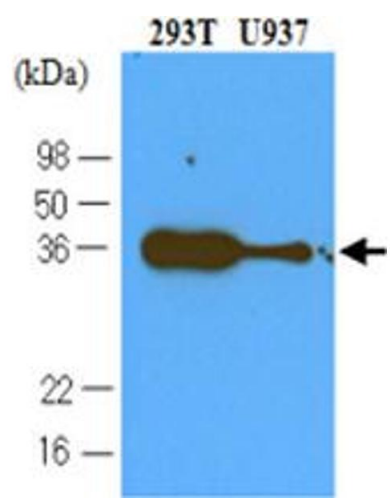
Storage Comment: Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C.  
Aliquot to avoid repeated freezing and thawing.

## Publications

Product cited in: Latchman, Wood, Chernova, Chaudhary, Borde, Chernova, Iwai, Long, Brown, Nunes, Greenfield, Bourque, Boussiotis, Carter, Carreno, Malenkovich, Nishimura, Okazaki, Honjo, Sharpe, Freeman: "PD-L2 is a second ligand for PD-1 and inhibits T cell activation." in: **Nature immunology**, Vol. 2, Issue 3, pp. 261-8, (2001) ([PubMed](#)).

Nishimura, Honjo: "PD-1: an inhibitory immunoreceptor involved in peripheral tolerance." in: **Trends in immunology**, Vol. 22, Issue 5, pp. 265-8, (2001) ([PubMed](#)).

Okazaki, Maeda, Nishimura, Kurosaki, Honjo: "PD-1 immunoreceptor inhibits B cell receptor-mediated signaling by recruiting src homology 2-domain-containing tyrosine phosphatase 2 to phosphotyrosine." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 98, Issue 24, pp. 13866-71, (2001) ([PubMed](#)).



Western Blotting

**Image 1.** Western blot analysis cell lysates of 293T and U937 (40 ug) were resolved by SDS - PAGE , transferred to NC membrane and probed with PDCD1 monoclonal antibody , clone 4F12 (1 : 500) . Proteins were visualized using a goat anti - mouse secondary antibody conjugated to HRP and an ECL detection system.