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Product datasheet for AM26478RP-N

PD L1 (CD274) Mouse Monoclonal Antibody [Clone ID: J110]

Product data:

Product Type:	Primary Antibodies
Clone Name:	J110
Applications:	FC
Recommended Dilution:	**Flow cytometry:** 20 µl (ready for use). For details see protocol below.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Fusion protein of the extracellular domain of human PD-1 and the constant region of human γ1 heavy chain
Specificity:	This antibody reacts with human PD-1.
Formulation:	PBS Label: PE State: Liquid Ig fraction Stabilizer: 1% BSA Preservative: 0.09% NaN_3
Purification:	Protein A agarose
Conjugation:	PE
Storage:	Store at 2-8 °C.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD274 molecule
Database Link:	Entrez Gene 29126 Human Q9NZQ7

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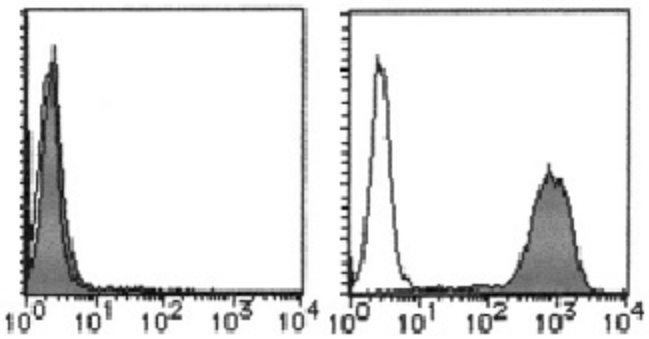
Background: Human PD-1 (programmed death-1) is a 55 kDa member of the immunoglobulin superfamily that is induced in cells undergoing apoptosis. The PD-1 protein contains an immunoreceptor tyrosine-based inhibitory motif and is expressed predominantly on activated T and B lymphocytes. PD-1 plays a key role in peripheral tolerance and autoimmune diseases and is thought to be involved in the maintenance of peripheral self-tolerance by serving as a negative regulator of immune responses. Two novel members of the B7 family have been identified as PD-1 ligands, PD-L1 (B7-H1) and PD-L2 (B7-DC). Evidence reported to date suggests overlapping functions for these two PD-1 ligands and their constitutive expression on some normal tissues and up-regulation on activated antigen presenting cells.

Synonyms: PD-L1, PDCD1 ligand 1, B7H1, B7H1, B7 homolog 1, PDCD1L1, PDCD1LG1

Note: This product was originally produced by MBL International.

Protocol:
Flow cytometric analysis for floating cells
We usually use Fisher tubes or equivalents as reaction tubes for all steps described below.
1) Wash the cells 3 times with washing buffer [PBS containing 2% fetal calf serum (FCS) and 0.1% NaN3].
2) Resuspend the cells with washing buffer (5x10e6 cells/mL).
3) Add 50 µL of the cell suspension into each tube, and centrifuge at 500 x g for 1 minute at room temperature (20~25oC). Remove supernatant by careful aspiration.
4) Add 10 µL of normal goat serum containing 1 mg/mL of normal human IgG and 0.1% NaN3 to the cell pellet after tapping. Mix well and incubate for 5 minutes at room temperature.
5) Add 20 µL of PE labeled anti-PD-1 (J110). Mix well and incubate for 20 minutes at room temperature.
6) Add 1 mL of the washing buffer followed by centrifugation at 500 x g for 1 minute at room temperature. Remove supernatant by careful aspiration.
7) Resuspend the cells with 500 µL of the washing buffer and analyze by a flow cytometer.
(Positive control for Flow cytometry; transfectant)

Product images:



Flow cytometric analysis of PD-1 expression on X63 cells (left) and PD-1 transfected X63 cells (right). Open histograms indicate the reaction of isotypic control to the cells. Shaded histograms indicate the reaction of AM26478RP-N to the cells.