

## 10-7612: Monoclonal Antibody to Mouse PD-1 (Clone: ABM5F42)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	ABM5F42
<b>Application :</b>	FACS
<b>Reactivity :</b>	Mouse
<b>Conjugate :</b>	Unconjugated
<b>Gene :</b>	Pdcd1
<b>Gene ID :</b>	18566
<b>Uniprot ID :</b>	Q02242
<b>Format :</b>	Purified
<b>Alternative Name :</b>	Programmed cell death protein 1, Protein PD-1, CD279
<b>Isotype :</b>	Rat IgG2b, kappa
<b>Immunogen Information :</b>	partial length recombinant protein (a.a 07-211) of mPD-1 was used as the immunogen for this antibody.

### Description

PDCD-1 (programmed cell death-1 protein), also designated CD279, is a type I transmembrane receptor and a member of the immunoglobulin gene superfamily. It is expressed on activated T-cells, B-cells, and myeloid cells. 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.

### Product Info

<b>Amount :</b>	25 µg / 100 µg
<b>Purification :</b>	Protein G Chromatography
<b>Content :</b>	100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
<b>Storage condition :</b>	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

### Application Note

FACS: 0.5-1 µg/10<sup>6</sup>

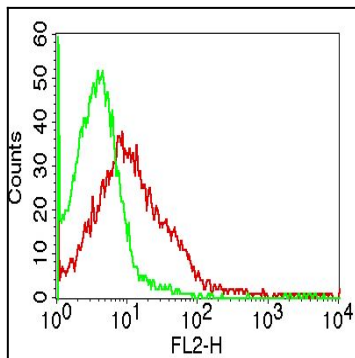


Fig:1- Cell surface flow analysis of mPD-1 in Con A treated Mouse Splenocytes using 0.5  $\mu\text{g}/10^6$  cells of mPD-1 antibody (Clone: ABM5F42). Green represents isotype control; red represents anti-mPD-1 antibody. Goat anti-rat PE conjugate was used as secondary antibody.