9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

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

Clonality :	Monoclonal
Clone Name :	ABM5F42
Application :	FACS
Reactivity :	Mouse
Conjugate :	Unconjugated
Gene :	Pdcd1
Gene ID :	18566
Uniprot ID :	Q02242
Format :	Purified
Alternative Name :	Programmed cell death protein 1, Protein PD-1, CD279
Isotype :	Rat IgG2b, kappa
Immunogen Information :	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 immunoglobin 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

Amount :	25 µg / 100 µg
Purification :	Protein G Chromatography
Content :	100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	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/10^6

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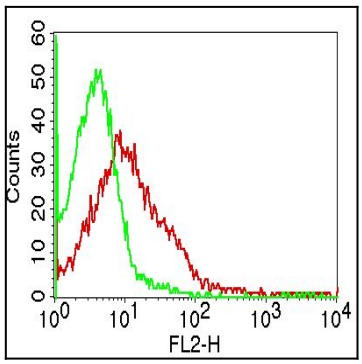

Fig:1- Cell surface flow analysis of mPD-1 in Con A treated Mouse Splenocytes using 0.5 µg/10^6 cells of mPD-1 antibody (Clone: ABM5F42). Green represents isotype control; red represents anti-mPD-1 antibody. Goat anti-rat PE conjugate was used as secondary antibody.