Leinco Technologies, Inc.
excellence in early discovery research™

Mouse CD279 (PD-1) Antibody

Purified (PhenoCyler-Fusion (CODEX)® Ready)

Monoclonal Antibody

Product Information

Product No.:	P501
Clone:	29F.1A12
RRID:	AB_2894159
Isotype:	Rat IgG2a κ
Storage:	Sterile 2 to 8°C

Product Description

Specificity:
Clone 29F.1A12 recognizes an epitope on mouse PD-1.

Antigen Distribution:
PD-1 is expressed on a subset of CD4-CD8- thymocytes, and on activated T and B cells.

Background:
PD-1 is a 50-55 kD member of the B7 Ig superfamily. PD-1 is also a member of the extended CD28/CTLA-4 family of T cell regulators and is suspected to play a role in lymphocyte clonal selection and peripheral tolerance. The ligands of PD-1 are PD-L1 and PD-L2, and are also members of the B7 Ig superfamily. PD-1 and its ligands negatively regulate immune responses. PD-L1, or B7-Homolog 1, is a 40 kD type I transmembrane protein that has been reported to costimulate T cell growth and cytokine production. The interaction of PD-1 with its ligand PD-L1 is critical in the inhibition of T cell responses that include T cell proliferation and cytokine production. PD-L1 has increased expression in several cancers. Inhibition of the interaction between PD-1 and PD-L1 can serve as an immune checkpoint blockade by improving T-cell responses In vitro and mediating preclinical antitumor activity. Within the field of checkpoint inhibition, combination therapy using anti-PD1 in conjunction with anti-CTLA4 has significant therapeutic potential for tumor treatments. PD-L2 is a 25 kD type I transmembrane ligand of PD-1. Via PD-1, PD-L2 can serve as a coinhibitor of T cell functions. Regulation of T cell responses, including enhanced T cell proliferation and cytokine production, can result from mAbs that block the PD-L2 and PD-1 interaction.

Known Reactivity Species:
Mouse

Format:
Purified (PhenoCycler® Ready)

Immunogen:
PD-1 cDNA followed by PD-1-Ig fusion protein

Formulation
This purified antibody is formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.4.

Storage and Stability
This antibody is stable for at least one week when stored at 2-8°C. For long term storage, aliquot in working volumes without diluting and store at -20°C in a manual defrost freezer.
Avoid Repeated Freeze Thaw Cycles.

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Applications

Applications and Recommended Usage (Quality Tested By Leinco):

CODEX® This CD279/PD-1 [Clone 29F.1A12] antibody is formulated to simplify the antibody preparation needed when performing a CODEX® barcode conjugate. The suggested concentration is 0.5 mg/ml.

Country of Origin

USA