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**Product name:** AF/LE Purified Anti-Mouse CD279/PD-1  
Monoclonal Antibody

**Catalog:** DL21637F

**Synonyms:** PD-1, Programmed Death-1

**Background:** CD279, also known as programmed death-1 (PD-1), is a 50-55 kD glycoprotein belonging to the CD28 family of the Ig superfamily. PD-1 is expressed on activated splenic T and B cells and thymocytes. It is induced on activated myeloid cells as well. PD-1 is involved in lymphocyte clonal selection and peripheral tolerance through binding its ligands, B7-H1 (PD-L1) and B7-DC (PD-L2). It has been reported that PD-1 and PD-L1 interactions are critical to positive selection and play a role in shaping the T cell repertoire. PD-L1 negative

costimulation is essential for prolonged survival of intratesticular islet allografts.

**Form:** Liquid

**Isotype:** Rat IgG2a,  $\kappa$

**Size:** 50 $\mu$ g/500 $\mu$ g/1mg

**Host:** Rat

**Reactivity:** Mouse

**Application:** Block, Neut, FCM, WB, IHC, IF

**Concentration:** 0.5 mg/mL

**Conjugation:** None (Purified antibody, Azide Free/Low endotoxin)

**SwissProt:** Q02242

**Buffer:** 0.2  $\mu$ m filtered in PBS, pH 7.2. Azide Free (AF)/Low Endotoxin (LE): Contains no stabilizers or

### Recommended Use:

Each lot of this antibody is quality control tested by flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is  $\leq 0.25 \mu$ g per  $10^6$  cells in 100  $\mu$ L volume or 100  $\mu$ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

**Storage:**

Keep as concentrated solution.

Store at 2~8°C. Do not freeze.

This product is guaranteed up to one year from purchase.