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

**Catalog:** DL21621F

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

**Background:** Programmed cell death 1 (PD-1), also known as CD279, is a 55 kD member of the immunoglobulin superfamily. CD279 contains the immunoreceptor tyrosine-based inhibitory motif (ITIM) in the cytoplasmic region and plays a key role in peripheral tolerance and autoimmune disease. CD279 is expressed predominantly on activated T cells, B cells, and myeloid cells. PD-L1 (B7-H1) and PD-L2 (B7-DC) are ligands of CD279 (PD-1) and are members of the B7 gene family. Evidence suggests overlapping functions for these two PD-1 ligands and

their constitutive expression on some normal tissues and upregulation on activated antigen-presenting cells. Interaction of CD279 ligands results in inhibition of T cell proliferation and cytokine secretion.

**Form:** Liquid

**Isotype:** Mouse IgG1,  $\kappa$

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

**Host:** Mouse

**Reactivity:** Human

**Application:** Block, Neut,  
FCM,IHC,IP

**Concentration:** 0.5 mg/mL

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

**SwissProt:** Q15116

**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  $\leq 1.0 \mu\text{g}$  per  $10^6$  cells in  $100 \mu\text{L}$  volume or  $100 \mu\text{L}$  of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

**Storage:**

Keep as concentrated solution.

Store at  $2\sim 8^{\circ}\text{C}$ . Do not freeze.

This product is guaranteed up to one year from purchase.