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**Product name:** Purified Anti-Mouse CD274/PD-L1 Monoclonal  
Antibody

**Catalog:** DL21655F

**Synonyms:** B7-H1, PD-L1, Programmed cell death ligand 1, B7  
homolog 1, B7-H, B7H1, PDL1, PDCD1L1,  
PDCD1LG1

**Background:** CD274, also known as B7-H1 or programmed death  
ligand 1 (PD-L1), is a 40 kD type I transmembrane  
protein and a member of the B7 family within the  
immunoglobulin receptor superfamily. It is expressed  
on T cells, B cells, NK cells, dendritic cells, IFN- $\gamma$   
activated endothelial cells, and monocytes. B7-H1 is  
one of the ligands of PD-1. The interaction of B7-H1  
with PD-1 plays an important role in the inhibition of  
T cell responses. Other studies have shown that

B7-H1 is able to costimulate T cell growth and cytokine production. CD274 is involved in costimulation essential for T cell proliferation and production of IL-10 and IFN- $\gamma$ , in an IL-2-dependent and a PD-1-independent manner. Its interaction with PD-1 inhibits T cell proliferation and cytokine production.

**Form:** Liquid

**Isotype:** Rat IgG2b,  $\kappa$

**Size:** 25 $\mu$ g/100 $\mu$ g

**Host:** Rat

**Reactivity:** Mouse

**Application:** FCM,IHC,IF

**Concentration:** 0.5 mg/mL

**Conjugation:** Unconjugated

**SwissProt:** Q9EP73

**Buffer:** Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

### **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 2~8°C. Do not freeze.

This product is guaranteed up to one year from purchase.