

## APC Anti-Mouse CD274 Monoclonal Antibody



天津三箭生物技术股份有限公司  
Tianjin Sungene Biotech Co., Ltd.  
精准 高效 稳定 Precision Efficient Stable

Catalog Number	Vial Size
M12741-11A	25 µg
M12741-11C	100 µg

**Market** | 400-621-0003  
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**Important Note:** Centrifuge before opening to ensure complete recovery of vial contents.  
This product is guaranteed up to one year from purchase.

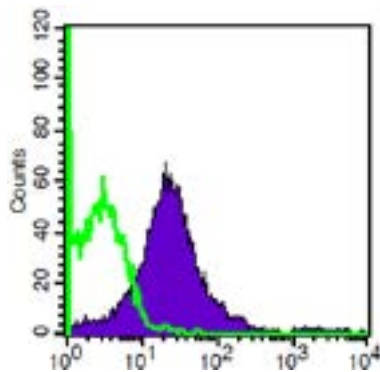
### Purified Antibody Characterization

Clone	Isotype	Reactivity
10F.9G2	Rat IgG2b	Mouse

### Description

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 lymphocyte proliferation and production of IL-10 and IFN- $\gamma$ , in an IL-2-dependent and a PDCD1-independent manner. Its interaction with PDCD1 inhibits T-cell proliferation and cytokine production.

### Illustration of Immunofluorescent Staining



#### Log Fluorescence Intensity

C57BL/6 mouse splenocytes stained  
with APC anti-mouse CD274

### Product Information

**Conjugation:** APC

**Formulation:** PBS pH 7.2, 0.09% NaN<sub>3</sub>,  
0.2% BSA

**Concentration:** 0.5 mg/ml

**Storage:** Keep as concentrated solution.  
Store at 4°C and protected from prolonged  
exposure to light. **Do not freeze.**

**Application:** Recommended Application: FC

**Usage:** Each lot of this antibody is quality  
control tested by immunofluorescent staining  
with flow cytometric analysis (The amount of  
the reagent is suggested to be used  $\leq 0.25$   
 $\mu\text{g}/10^6$  cells in 100  $\mu\text{l}$ ). Since applications  
vary, the appropriate dilutions must be  
determined for individual use.

### References

- [1] Sharpe A, et al. 2007. Nat. Immunol. 8:239.
- [2] Dong H, et al. 1999. Nat. Med. 5:1365.
- [3] Freeman G, et al. 2000. J. Exp. Med. 192:1027.

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