Purified anti-human CD274 (B7-H1, PD-L1)

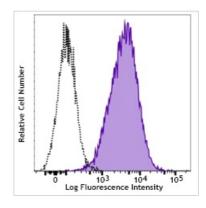|	
Catalog # / Size:	2568010 / 100 µg
Clone:	MIH2
Isotype:	Mouse IgG1, κ
Immunogen:	Human PD-L1-transfected cells
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.5 mg/ml

Human PBMCs were activated for 3 days with PHA and then stained with purified CD274 (clone MIH2, filled histogram) or purified mouse IgG1, κ isotype control (open histogram), followed by anti-mouse IgG PE.

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application References:	1. Khan AR, *et al*. 2015. *Nat Commun*. 6:5997
	2. Kiyasu J, *et al*. 2015. *Blood*. 126:2193
	3. Herold M, *et al*. 2015. *J Immunol*. 195:3584
	4. Buddhisa S, *et al*. 2015.

Description:	CD274, also known as PD-L1 and B7-H1, is type I transmembrane glycoprotein that serves as a ligand for CD279 (PD-1). This interaction is believed to regulate the balance between the stimulatory and inhibitory signals needed for responses to microbes and maintenance of self-tolerance. CD274 is involved in the costimulation of T cell proliferation and IL-10 and IFN-γ production in an IL-2-dependent and CD279-independent manner. Conflicting data has shown that CD274 can inhibit T cell proliferation and cytokine production, and alternatively, enhance T cell activation. Other studies suggest that CD274 may signal bidirectionally, raising interesting implications for its expression in a wide variety of cell types, including T and B cells, antigen-presenting cells, and non-hematopoietic cells.

Antigen References:

1. Khan AR, *et al.* 2015. *Nat Commun.* 6:5997

2. Kiyasu J, *et al.* 2015. *Blood.* 126:2193

3. Herold M, *et al.* 2015. *J Immunol.* 195:3584

4. Buddhisa S, *et al.* 2015. *J Immunol.* 194:4413