

## DATASHEET

# CD273 Mouse Monoclonal Antibody(C2897)

CAT. NO. AMA02509

### KEY FEATURES

Target	CD273	Source / Host	Mouse
Reactivity	Human, Mouse, Rat	Clonality	Monoclonal
Applications	WB, IF/ICC, FC	Conjugation	Unconjugated
Form / Buffer	Mouse IgG2b. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

### BACKGROUND

Plays a critical role in induction and maintenance of immune tolerance to self . Acts as a ligand for the inhibitory receptor PDCD1/PD-1, inhibiting T-cell proliferation by blocking cell cycle progression and cytokine production .

### APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IF/ICC	1:100 - 1:500
FC	1:100 - 1:200

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

### PRODUCT OVERVIEW

Description	Mouse monoclonal to CD273
Specificity	Recognizes endogenous levels of CD273 protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human CD273 expressed in E. Coli
Purification	This antibody is purified through a protein G column.
Molecular Weight	Predicted: 32 kD; Observed: 58 kD
Form/Buffer	Mouse IgG2b. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	B7DC; CD273; PDCD1L2; PDL2; Programmed cell death 1 ligand 2; PD-1 ligand 2; PD-L2; PDCD1 ligand 2; Programmed death ligand 2; Butyrophilin B7-DC; B7-DC; CD273
Gene Symbol	PDCD1LG2
Entrez Gene	80380(Human); 58205(Mouse)
SwissProt	Q9BQ51(Human); Q9WUL5(Mouse)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

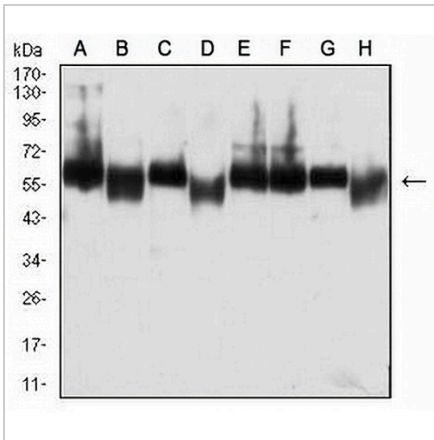
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

**DATASHEET**

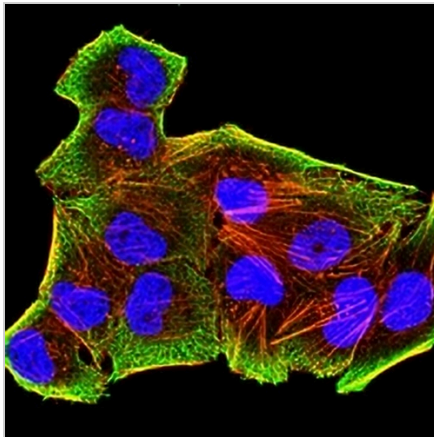
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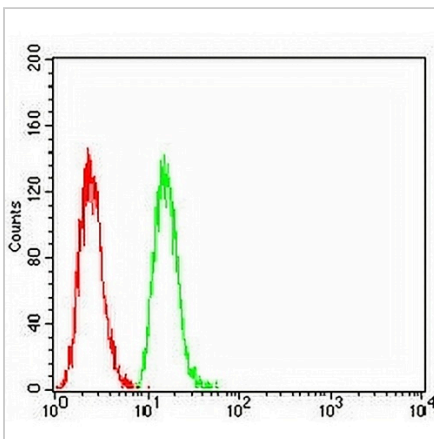
**DATA**



Western blot analysis of CD273 expression in HepG2 (A), HeLa (B), NIH/3T3 (C), PC12 (D), K562 (E), Jurkat (F), MCF7 (G), HEK293-6e (H) whole cell lysates. (Predicted band size: 32 kD; Observed band size: 58 kD)



Immunofluorescent analysis of CD273 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AREX® Fluor 488 -conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AREX® Fluor 594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



Flow cytometric analysis of HeLa cells using Anti-CD273 Antibody (green) and negative control (red).

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.