

## DATASHEET

# CD279 Mouse Monoclonal Antibody(4A5C4.B8)

CAT. NO. AMA03719

### KEY FEATURES

Target	CD279	Source / Host	Mouse
Reactivity	Human	Clonality	Monoclonal
Applications	IF/ICC, FC	Conjugation	Unconjugated
Form / Buffer	Mouse IgG1 kappa. Liquid in PBS, pH 7.3, and 0.02% sodium azide.	Storage	at-20°C

### BACKGROUND

Inhibitory receptor on antigen activated T-cells that plays a critical role in induction and maintenance of immune tolerance to self . Delivers inhibitory signals upon binding to ligands CD274/PDCD1L1 and CD273/PDCD1LG2 . Following T-cell receptor (TCR) engagement, PDCD1 associates with TCR-CD3 in the immunological synapse and directly inhibits T-cell activation . Suppresses T-cell activation through the recruitment of PTPN11/SHP-2: following ligand-binding, PDCD1 is phosphorylated within the ITSM motif, leading to the recruitment of the protein tyrosine phosphatase PTPN11/SHP-2 that mediates dephosphorylation of key TCR proximal signaling molecules, such as ZAP70, PRKCQ/PKCtheta and CD247/CD3zeta .

### APPLICATION

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

IF/ICC	1:50 - 1:200
FC	1:500 - 1:2000

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

### PRODUCT OVERVIEW

Description	Mouse monoclonal antibody to CD279
Specificity	Recognizes human CD279
Antibody Type	Primary antibody
Immunogen	Native purified human CD279
Purification	The antibody was purified by affinity chromatography.
Form/Buffer	Mouse IgG1 kappa. Liquid in PBS, pH 7.3, and 0.02% sodium azide.
Alternative Names	PD1; Programmed cell death protein 1; Protein PD-1; hPD-1; CD279
Gene Symbol	PDCD1
Entrez Gene	5133(Human)
SwissProt	Q15116(Human)

\*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.

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**| DATA**

**| 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.