

Anti-CD279 Antibody

Catalog # AP95994

Product Information

Application	WB, FC
Primary Accession	Q15116
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	31647

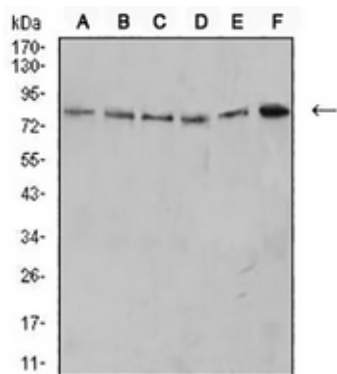
Additional Information

Gene ID	5133
Other Names	PD1; Programmed cell death protein 1; Protein PD-1; hPD-1; CD279
Target/Specificity	Recombinant fusion protein of human CD279 expressed in HEK293
Dilution	WB~~WB (1/500 - 1/1000) FC~~FC (1/100 - 1/200)
Format	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

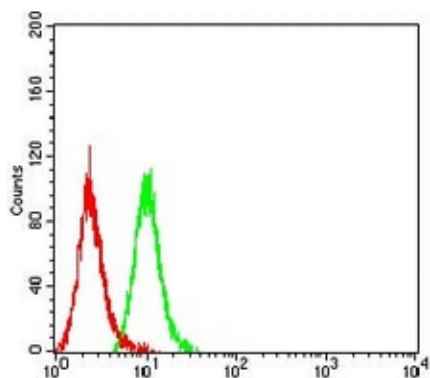
Protein Information

Name	PDCD1 {ECO:0000303 PubMed:7851902, ECO:0000312 HGNC:HGNC:8760}
Function	Inhibitory receptor on antigen activated T-cells that plays a critical role in induction and maintenance of immune tolerance to self (PubMed: 21276005 , PubMed: 31754127 , PubMed: 32184441 , PubMed: 37208329). Delivers inhibitory signals upon binding to ligands CD274/PDCD1L1 and CD273/PDCD1LG2 (PubMed: 21276005 , PubMed: 26602187). Following T-cell receptor (TCR) engagement, PDCD1 associates with TCR-CD3 in the immunological synapse and directly inhibits T-cell activation (PubMed: 32184441). 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 (PubMed: 32184441).
Cellular Location	Cell membrane; Single-pass type I membrane protein

Images



Western blot analysis of CD279 expression in MOLT4 (A), K562 (B), Ramos (C), HL60 (D), THP1 (E), U937 (F) whole cell lysates. (Predicted band size: 32 kD; Observed band size: 80 kD)



Flow cytometric analysis of HeLa cells using Anti-CD279 Antibody (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.