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Anti-CD279 Antibody

Catalog # AP50734

Product Information

Application	WB
Primary Accession	Q15116
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31647

Additional Information

Gene ID	5133
Other Names	PD1; Programmed cell death protein 1; Protein PD-1; hPD-1; CD279
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CD279. The exact sequence is proprietary.
Dilution	WB~~ 1:1000
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

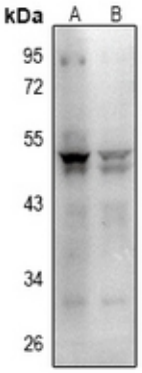
Protein Information

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

References

Shinohara T.,et al.Genomics 23:704-706(1994).
Finger L.R.,et al.Gene 197:177-187(1997).
Finger L.R.,et al.Gene 203:253-253(1997).
Prokunina L.,et al.Nat. Genet. 32:666-669(2002).
He X.,et al.Submitted (FEB-2003) to the EMBL/GenBank/DDBJ databases.

Images



Western blot analysis of CD279 expression in K562 (A), U87MG (B) whole cell lysates. (Predicted band size: 31 kD; Observed band size: 50; 32 kD)

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