

Anti-PDCD1 / PD-1 / CD279 Reference Antibody (2E5)

Catalog # APR11196

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	Q15116
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG4SP
Calculated MW	31647

Additional Information

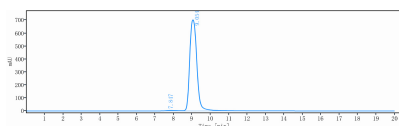
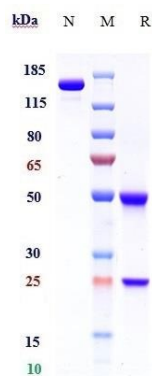
Target/Specificity	PDCD1 / PD-1 / CD279
Expression system	CHO

Protein Information

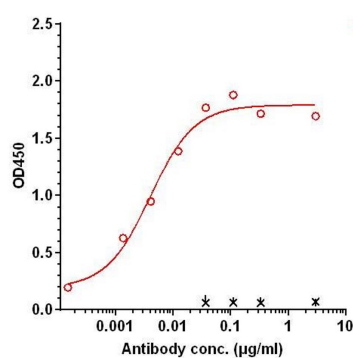
Name	PDCD1 {ECO:0000303 PubMed:7851902, ECO:0000312 HGNC:HGNC:8760}
Function	Inhibitory receptor on antigen activated T-cells that plays a critical role in induction and maintenance of immune tolerance to self (PubMed: 21276005 , PubMed: 31754127 , PubMed: 32184441 , PubMed: 37208329). Delivers inhibitory 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

Anti-PDCD1 / PD-1 / CD279 Reference Antibody (2E5) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



The purity of Anti-PDCD1 / PD-1 / CD279 Reference Antibody (2E5) is 100%, determined by SEC-HPLC.



Immobilized hu-PD-1-His at 2 µg/mL can bind anti-PD-1(2E5), $EC_{50} = 0.004058$ µg/mL.

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