

# Anti-PDCD1 / PD-1 / CD279 Reference Antibody (penpulimab)

Recombinant Antibody  
Catalog # APR10722

## Product Information

Application	FC, Kinetics, Animal Model
Primary Accession	<a href="#">Q15116</a>
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	31647

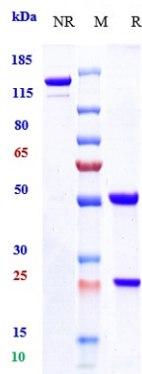
## Additional Information

Target/Specificity	PDCD1 / PD-1 / CD279
Endotoxin Conjugation	Unconjugated
Expression system	CHO Cell
Format	Purified monoclonal antibody supplied in PBS, pH6.0, without preservative. This antibody is purified through a protein A column.

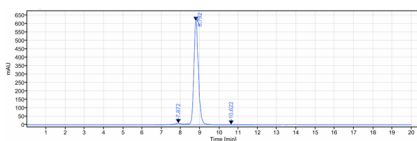
## Protein Information

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: <a href="#">21276005</a> , PubMed: <a href="#">31754127</a> , PubMed: <a href="#">32184441</a> , PubMed: <a href="#">37208329</a> ). Delivers inhibitory signals upon binding to ligands CD274/PDCD1L1 and CD273/PDCD1LG2 (PubMed: <a href="#">21276005</a> , PubMed: <a href="#">26602187</a> ). Following T-cell receptor (TCR) engagement, PDCD1 associates with TCR-CD3 in the immunological synapse and directly inhibits T-cell activation (PubMed: <a href="#">32184441</a> ). 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: <a href="#">32184441</a> ).
Cellular Location	Cell membrane; Single-pass type I membrane protein

## Images



Anti-PDCD1 / PD-1 / CD279 Reference Antibody (penpulimab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



The purity of Anti-PDCD1 / PD-1 / CD279 Reference Antibody (penpulimab) is more than 96.8% ,determined by SEC-HPLC.

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