

Anti-PDCD1 / PD-1 / CD279 Reference Antibody (pembrolizumab)

Recombinant Antibody Catalog # APR10246

Specification

Anti-PDCD1 / PD-1 / CD279 Reference Antibody (pembrolizumab) - Product Information

Application FC, Kinetics, Animal Model

Primary Accession
Reactivity
Human
Clonality
Monoclonal
Isotype
Calculated MW
143.44 KDa

Anti-PDCD1 / PD-1 / CD279 Reference Antibody (pembrolizumab) - Additional Information

Target/Specificity PDCD1 / PD-1 / CD279

Endotoxin

< 0.001EU/ µg,determined by LAL method.

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.

Anti-PDCD1 / PD-1 / CD279 Reference Antibody (pembrolizumab) - 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:37208329). Delivers inhibitory signals upon binding to ligands CD274/PDCD1L1 and CD273/PDCD1LG2 (PubMed:21276005). Following T-cell receptor (TCR) engagement, PDCD1 associates with CD3- TCR in the immunological synapse and directly inhibits T-cell activation (By similarity). 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 (By similarity).



Cellular Location

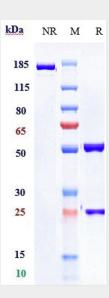
Cell membrane; Single-pass type I membrane protein

Anti-PDCD1 / PD-1 / CD279 Reference Antibody (pembrolizumab) - Protocols

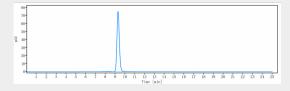
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Anti-PDCD1 / PD-1 / CD279 Reference Antibody (pembrolizumab) - Images

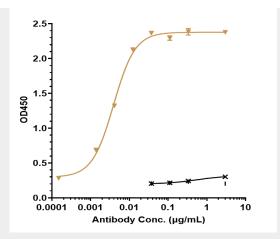


Anti-PDCD1 / PD-1 / CD279 Reference Antibody (pembrolizumab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%

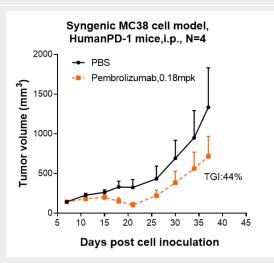


The purity of Anti-PDCD1 / PD-1 / CD279 Reference Antibody (pembrolizumab)is more than 95% ,determined by SEC-HPLC.





Immobilized human PD 1 His at 2 $\,\mu g/mL$ can bind Anti-PDCD1 / PD-1 / CD279 Reference Antibody (pembrolizumab) [EC50=0.0039 $\,\mu g/mL$



Pembrolizumab inhibited the tumor growth of MC38 on human PD-1 mice. The result showed significant anti-tumor effects, with an tumor inhibition rate (TGI) of 44.0% at 0.18 mpk at D37.