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

Catalog # APR11205

Product Information

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

Additional Information

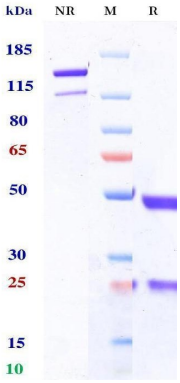
Target/Specificity	PDCD1 / PD-1 / CD279
Expression system	CHO

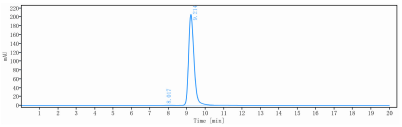
Protein Information

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

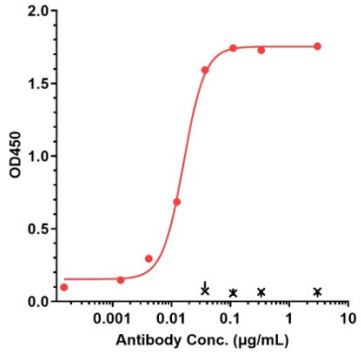
Images

Anti-PDCD1 / PD-1 / CD279 Reference Antibody (Gilvetmab) 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 (Gilvetmab) is 99.4%, determined by SEC-HPLC.



Immobilized huPD-1 ECD-GSV0-C-his at 2 μg/mL can bind Gilvetmab, EC50= 0.01604 μg/mL.