Anti-PDCD1 (RABBIT) Antibody - 600-401-A72

Code: 600-401-A72 **Size:** 100 µg

Product Description: Anti-PDCD1 (RABBIT) Antibody - 600-401-A72

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

PhysicalState: Liquid (sterile filtered)

Label	Unconjugated
Host	Rabbit
Gene Name	PDCD1
Species Reactivity	human, mouse, rat
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide
Storage Condition	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Synonyms	PD1 antibody, PDCD 1 antibody, CD279 antibody
Application Note	This Anti-PDCD1 antibody has been tested for use in ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at ~47 kDa in size corresponding to PDCD1 by western blotting in the appropriate cell lysate or extract. THP-1 cell lysate can be used as positive control.
Background	Cell-mediated immune responses are initiated by T lymphocytes th Cell-mediated immune responses are initiated by T lymphocytes that are themselves stimulated by cognate peptides bound to MHC molecules on antigen-presenting cells (APC). T-cell activation is generally self-limited as activated T cells express receptors such as PDCD-1 that mediate inhibitory signals from the APC. PDCD-1 can bind two different but related ligands, PDL-1 and PDL-2. Upon binding to either of these ligands, signals generated by PDCD1 inhibit the activation of the immune response in the absence of “danger signals” such as LPS or other molecules associated with bacteria or other pathogens. Evidence for this is seen in PDCD1-null mice who exhibit hyperactivated immune systems and autoimmune diseases. Despite its predicted molecular weight, PDCD1 often migrates at higher molecular weight in SDS-PAGE.
Purity And Specificity	This affinity purified antibody is directed against human PDCD1 protein. The product was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody reacts with PDCD1 from human, mouse and rat sources. Reactivity with PDCD1 from other sources has not been determined.
Assay Dilutions	User Optimized
ELISA	1:10,000 - 1:40,000
Western Blot	0.5 - 1.0 µg/mL
Immunohistochemistry	5.0 µg/mL
Other Assays	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a region near the carboxy terminus of human PDCD1 protein.

Related Products

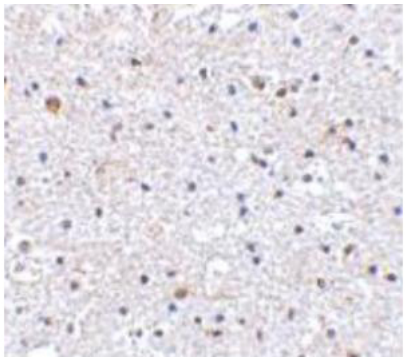
000-000-260	Substrate Peptide AKT PKBa - 000-000-260
000-000-264	NFKB p65 (Rel A) pS276 CONTROL PEPTIDE - 000-000-264
009-001-B95	IL-2 Human Recombinant Protein - 009-001-B95
200-301-268	Anti-AKT pS473 (MOUSE) Monoclonal Antibody - 200-301-268

Related Links

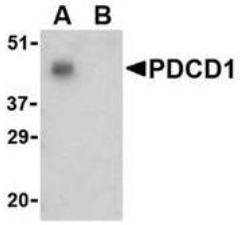
	UniProtKB - Q15116
http://www.uniprot.org/uniprot/Q15116	
NCBI - NP_005009.2	http://www.ncbi.nlm.nih.gov/protein/167857792?report=genbank&log$=protalign&blast_rank=1&RID=2RCB2NZJ01S
	GeneID - 5133

Images

1 Immunohistochemistry showing detection of human PDCD1 in brain tissue using a primary antibody dilution of 2.5 µg/mL.



2 Western blot using Rockland's affinity purified anti-PDCD1 antibody shows detection of a predominant band at ~47 kDa corresponding to PDCD1 (arrowhead) in THP-1 whole cell lysate. The predicted MW of PDCD1 is 32 kDa. PDCD1 was probed in the absence (lane A) and presence (lane B) of blocking peptide.



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