

Datasheet for 600-401-DK8**PDL2 Antibody****Overview**

Description:	Anti-PDL2 (RABBIT) Antibody - 600-401-DK8
Item No.:	600-401-DK8
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Cell-mediated immune responses are initiated by T lymphocytes that are themselves stimulated by co gnate 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 PD-1 (also known as PDCD-1) that mediate inhibitory signals from the APC. PD-1 can bind two different but related ligands, PDL-1 and PDL-2, both of which are thought act as a negative regulator of T cell activation. However, it has been suggested that PDL-2 can act to stimulate an immunogenic response through and alternative receptor from PD-1. At least three isoforms of PDL-2 are known to exist; this antibody is specific to the largest isoform. PDL-2 antibody has no cross-reactivity to PDL-2.
Synonyms:	PDL-2 Antibody, B7DC, Btdc, CD273, PD-L2, PDCD1L2, bA574F11.2, B7DC, Programmed cell death 1 ligand 2, Butyrophilin B7-DC, PD-1 ligand 2, PDL 2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PDCD1LG2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-PDL-2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid synthetic peptide from near the internal region of human PDL-2.
Purity/Specificity:	Anti-PDL-2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with PDL-2 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9BQ51 • GeneID - 80380 • NCBI - NP_079515

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-PDL-2 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 31 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5000-1:20,000
IF:	20 µg/mL
IHC:	2.5 µg/mL
WB:	0.5-2 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

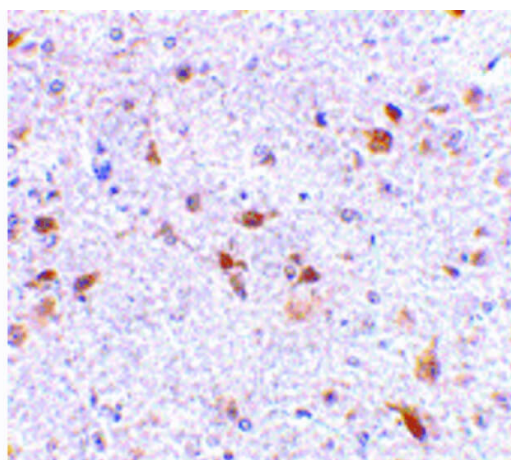
Shipping & Handling

Shipping Condition:	Dry Ice
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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.

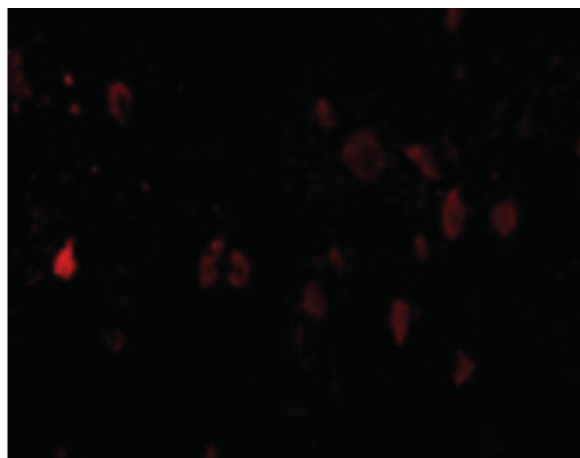
Expiration: Expiration date is one (1) year from date of receipt.

Images



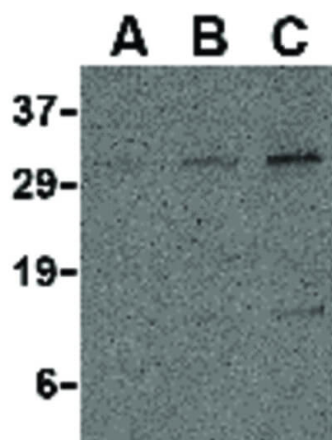
Immunohistochemistry

Immunohistochemistry of Rabbit PDL-2 antibody. Tissue: Mouse brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: PDL-2 antibody at 2.5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: PDL-2 is nuclear and occasionally cytoplasmic. Staining: PDL-2 as precipitated red signal with hematoxylin purple nuclear counterstain.



Immunofluorescence Microscopy

Immunofluorescence Microscopy of PDL-2 antibody. Tissue: Mouse brain cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: PDL-2 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: PDL-2 is nuclear and occasionally cytoplasmic. Staining: PDL-2 as red fluorescent signal.

**Western Blot**

Western Blot of PDL-2 antibody. Lane A: Raji cell lysate at 0.5 $\mu\text{g/mL}$. Lane B: Raji cell lysate at 1 $\mu\text{g/mL}$.

Lane C: Raji cell lysate at 2 $\mu\text{g/mL}$. Load: 35 μg per lane.

Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 30.9 kDa, ~31 kDa for PDL-2.

Other band(s): PDL-2 splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.