

Datasheet for 600-401-A71**PDL1 Antibody****Overview**

Description:	Anti-Programmed Cell Death 1 Ligand (PDL-1) (RABBIT) Antibody - 600-401-A71
Item No.:	600-401-A71
Size:	100 µg
Applications:	ELISA, FC, 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 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 (Programmed Cell Death 1) that mediate inhibitory signals from the APC. PDCD-1 can bind two different but related ligands, PDL-1 and PDL-2 (Programmed Cell Death Ligand -1 and -2, respectively). PDL-1 is a B7-related protein that inhibits cell-mediated immune responses by reducing the secretion of IL-2 and IL-10 from memory T cells. This suggests that PDL-1 may be useful in reducing allogenic CD4+ memory T-cell responses to endothelial cells, thereby reducing the likelihood of host immune responses to allografts. Anti-PDL-1 antibody is ideal for investigators involved in cancer research, cytokine research, immune research and apoptosis research.
Synonyms:	Rabbit anti-PDL1 antibody, Rabbit Anti-Programmed cell death 1 ligand 1 Antibody, Programmed cell death ligand 1, CD274, B7H1, PDCD1L1, PDCD1LG1, PDL1, B7 homolog 1, PD-L1, PDCD1 ligand 1, B7-H1, B7 homolog 1, PDL-1, PDL 1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CD274
Reactivity:	Human, Mouse, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	PDL-1 Antibody was produced from whole rabbit serum prepared by repeated immunizations with a peptide corresponding to an internal region of human PDL-1.
Purity/Specificity:	Anti-PDL-1 Antibody was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with PD-L1 with Human, Rat, and Mouse based on 100% homology with the immunizing sequence. PDL-1 antibody has no cross-reactivity to PDL-2. At least two isoforms of PDL-1 are known to exist; this antibody is specific to the larger isoform. Cross-reactivity with PDL-1 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9NZQ7 • NCBI - Q9NZQ7.1 • GeneID - 29126

Application Details

Tested Applications:	ELISA, FC, IF, IHC, WB
Application Note:	Rabbit Anti-PDL-1 antibody has been tested for use in ELISA, IHC, IF, FLOW, and western blotting. Expect a band at ~32 kDa in size corresponding to PDL-1 by western blotting in the appropriate cell lysate or extract. Raji cell lysate can be used as positive control. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:40,000
FC:	0.5 µg/ml
IF:	User Optimized
IHC:	2.5-5 µg/mL
WB:	0.5 - 1 µg/ml

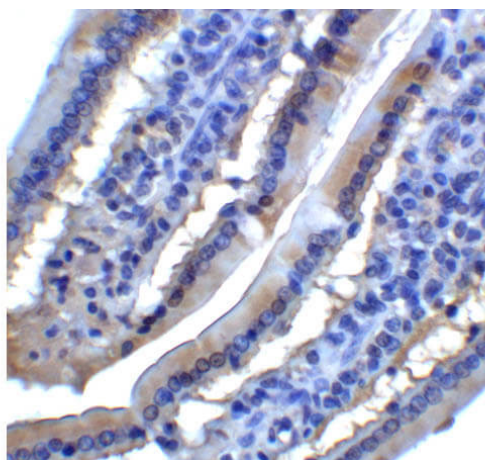
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

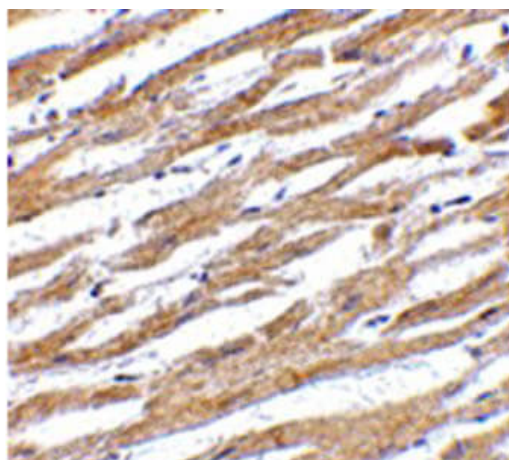
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several 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



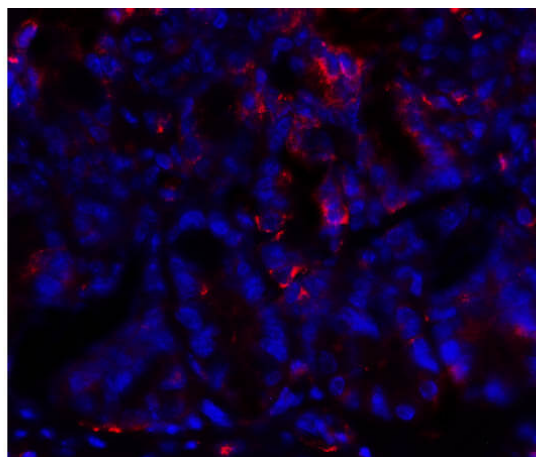
Immunohistochemistry

Immunohistochemistry of Rabbit anti-PDL-1 antibody.
 Tissue: Mouse Small Intestine. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required.
 Primary antibody: PDL1 antibody at 2 µg/mL for 1 h at RT.
 Secondary antibody: Biotinylated secondary antibody, HRP conjugated rabbit 1:200 for 30 min. Streptavidin-HRP for 30 min. Localization: PDL-1 is found in the cell membrane.
 Staining: PDL 1 as precipitated brown signal with hematoxylin purple nuclear counterstain.



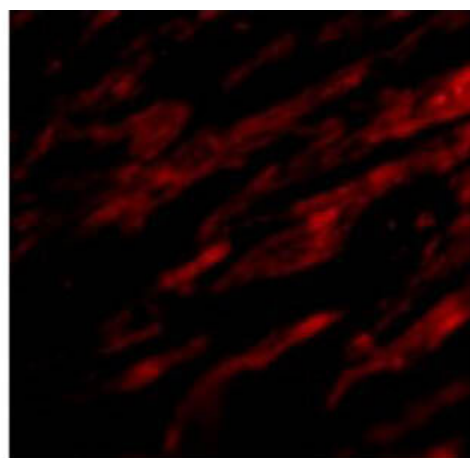
Immunohistochemistry

Immunohistochemistry of Rabbit anti-PDL-1 antibody.
 Tissue: human heart tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required.
 Primary antibody: PDL1 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-1 is found in the cell membrane. Staining: PDL 1 as precipitated brown signal with hematoxylin purple nuclear counterstain.



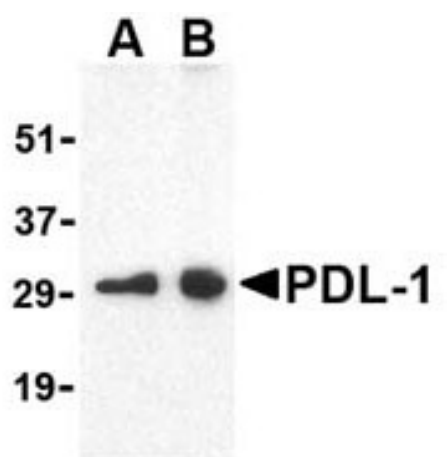
Immunofluorescence Microscopy

Immunofluorescence Microscopy of Rabbit anti-PDL-1 antibody. Tissue: Mouse Small Intestine. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: PDL 1 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-1 is found in the cell membrane. Staining: PDL1 as red signal.



Immunofluorescence Microscopy

Immunofluorescence Microscopy of Rabbit anti-PDL-1 antibody. Tissue: human heart cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: PDL 1 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-1 is found in the cell membrane. Staining: PDL1 as red signal.



Western Blot

Western blot using Rockland's affinity purified anti-PDL-1. Lane A: Raji whole cell lysate at 0.5 µg/ml of anti-PDL-1 antibody. Lane B: Raji whole cell lysate at 1.0 µg/ml of anti-PDL-1 antibody. Expect: detection of a predominant band at ~31 kDa corresponding to PDL-1 (arrowhead).

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.