

**Datasheet for 200-401-881****Cyclin L1 Antibody****Overview**

|                      |                                                            |
|----------------------|------------------------------------------------------------|
| <b>Description:</b>  | Anti-Cyclin L1 (isoform 1) (RABBIT) Antibody - 200-401-881 |
| <b>Item No.:</b>     | 200-401-881                                                |
| <b>Size:</b>         | 500 µg                                                     |
| <b>Applications:</b> | IHC, WB                                                    |
| <b>Reactivity:</b>   | Human                                                      |
| <b>Host Species:</b> | Rabbit                                                     |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | Cyclin L (also referred to as CCNL) is encoded by two highly related genes Cyclin L1 and Cyclin L2 (CCNL1 and CCNL2, respectively). Cyclin L has been shown to associate with the PITSLRE kinase and is involved in pre-mRNA processing. Both Cyclin L gene products can be alternatively spliced to produce two isoforms (known as 1 and 2 or alpha and beta). Cyclin L2 is ubiquitous, expressed at much higher levels than Cyclin L1, and thus is likely the major partner for the CDK11p110 protein kinase. |
| <b>Synonyms:</b>     | rabbit anti-Cyclin L1 antibody, Cyclin-L, Cyclin L beta, Cyclin L gamma, CCNL1                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

**Target Details**

|                        |                                                                                                                                                                                                                                 |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name:</b>      | CCNL1                                                                                                                                                                                                                           |
| <b>Reactivity:</b>     | Human                                                                                                                                                                                                                           |
| <b>Immunogen Type:</b> | Conjugated Peptide                                                                                                                                                                                                              |
| <b>Immunogen:</b>      | This Protein A purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic polypeptide corresponding to an internal region near amino acids 300-375 of Human Cyclin L1a protein. |

**Purity/Specificity:** The product was purified from monospecific antiserum by Protein A chromatography. This antibody is specific for human Cyclin L1a and shows negligible reactivity to Cyclin L1b or Cyclin L2 isoforms. A BLAST analysis was used to suggest reactivity with this protein from human and chimpanzee based on 100% homology for the immunogen sequence. Cross reactivity with Cyclin L1a protein from dog, rat, mouse and chicken is expected, as this sequence shows 87-96% homology with the protein from these sources. Cross reactivity with Cyclin L1a homologues from other sources has not been determined.

**Relevant Links:**

- [UniProtKB - Q9UK58](#)
- [NCBI - NP\\_064703.1](#)
- [GeneID - 57018](#)

## Application Details

**Tested Applications:** IHC, WB

**Application Note:** This Protein A purified antibody has been tested for use in ELISA, immunohistochemistry, western blot, and immunoprecipitation. Specific conditions for reactivity should be optimized by the end user. Expect a band ~ 59 kDa in size corresponding to Cyclin L1a by western blotting in the appropriate cell lysate or extract.

**Assay Dilutions:** All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

|               |                     |
|---------------|---------------------|
| <b>ELISA:</b> | 1:5,000 - 1:25,000  |
| <b>IHC:</b>   | 10 mg/ml - 20 µg/ml |
| <b>IP:</b>    | 1:100               |
| <b>WB:</b>    | 1:2,000 - 1:5,000   |

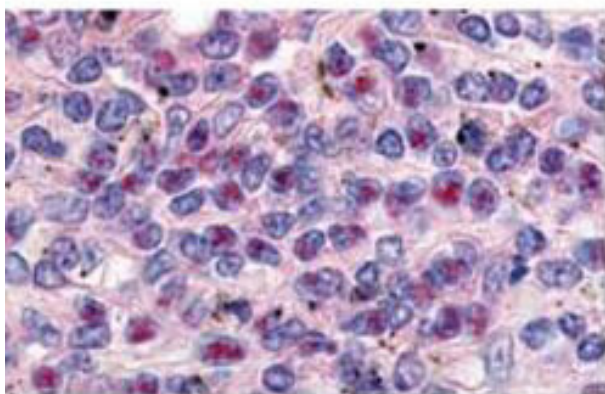
## Formulation

|                               |                                                            |
|-------------------------------|------------------------------------------------------------|
| <b>Physical State:</b>        | Lyophilized                                                |
| <b>Concentration:</b>         | 5.0 mg/mL by UV absorbance at 280 nm                       |
| <b>Buffer:</b>                | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| <b>Preservative:</b>          | 0.01% (w/v) Sodium Azide                                   |
| <b>Stabilizer:</b>            | None                                                       |
| <b>Reconstitution Volume:</b> | 100 µL                                                     |
| <b>Reconstitution Buffer:</b> | Restore with deionized water (or equivalent)               |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Ambient                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage Condition:</b>  | Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. 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. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                                                                                                                                                                                                                                                           |

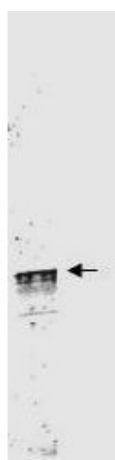
## Images



### Immunohistochemistry

Rockland's anti-Cyclin L1a antibody was used at a 10 µg/ml to detect Cyclin L1a in a variety of tissues including breast (collagen), heart, kidney (distal tubules), liver, skeletal muscle, ovary (granulosa and oocyte), pancreas (islet), placenta (trophoblast), prostate (epithelium), skin, spleen (endothelium), stomach (chief), testes (seminiferous epithelium and leydig), thymus (Has-sal's corpuscle and lymphocytes) and uterus (glandular epithelium and stroma).

Low to moderate background staining was noted. This image shows Cyclin L1a staining of human spleen. Tissue was formalin-fixed and paraffin embedded. Personal Communication, Tina Roush, LifeSpan Biosciences, Seattle, WA.



### Western Blot

Western blot using Rockland's Protein A Purified anti-Cyclin L1a antibody shows detection of a band ~59 kDa corresponding to a Cyclin L1a (arrowhead) present in mouse brain whole cell lysate (p/n W10-000-T004). Approximately 35µg of lysate was separated by 4-20% SDS-PAGE followed by transfer to nitrocellulose. After blocking the membrane was probed with the primary antibody diluted to 1:3,500 for 2h at room temperature followed by washes and reaction with a 1:10,000 dilution of IRDye™800 conjugated Gt-a-Rabbit IgG [H&L] MX (p/n 611-132-122) for 45 min at room temperature. IRDye™800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.

## 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.