

**Anti-p130 (Rb2) (RABBIT) Antibody - 100-401-173**
**Code:** 100-401-173

**Size:** 100 µL

**Product Description:** Anti-p130 (Rb2) (RABBIT) Antibody - 100-401-173

**Concentration:** 85 mg/mL by Refractometry

**PhysicalState:** Liquid (sterile filtered)

<b>Label</b>	Unconjugated
<b>Host</b>	Rabbit
<b>Gene Name</b>	RBL2
<b>Species Reactivity</b>	human, rat, mouse
<b>Buffer</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Stabilizer</b>	None
<b>Preservative</b>	0.01% (w/v) Sodium Azide
<b>Storage Condition</b>	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.
<b>Synonyms</b>	rabbit anti-p130 Antibody, rabbit anti-Rb2 antibody, RBR 2 antibody, RBR2 antibody, Retinoblastoma like 2 antibody, Retinoblastoma like protein 2 antibody, Retinoblastoma Related Gene antibody
<b>Application Note</b>	Suitable for ELISA, immunoprecipitation, immunoblotting, immunohistochemistry, and other immunological methods requiring high titer and specificity.
<b>Background</b>	Retinoblastoma-like protein 2 (Rb2) is a key regulator of entry into cell division. It is directly involved in heterochromatin formation by maintaining overall chromatin structure and, in particular, that of constitutive heterochromatin by stabilizing histone methylation. p130 recruits and targets histone methyltransferases KMT5B and KMT5C, leading to epigenetic transcriptional repression. It controls histone H4 'Lys-20' trimethylation and probably acts as a transcription repressor by recruiting chromatin-modifying enzymes to promoters. It is a potent inhibitor of E2F-mediated trans-activation, associates preferentially with E2F5. It binds to cyclins A and E as well as binds to and may be involved in the transforming capacity of the adenovirus E1A protein. Rb2 may act as a tumor suppressor.
<b>Purity And Specificity</b>	This product was prepared from monospecific antiserum by delipidation and defibrination. Antiserum will specifically react with a 130 kDa Rb2 protein from human, rat and mouse tissue. No reaction was observed against other related tumor suppressor proteins. Cross reactivity with Rb2 (p130) from other species may also occur.
<b>Assay Dilutions</b>	User Optimized
<b>ELISA</b>	1:5,000 - 1:20,000
<b>Western Blot</b>	1:500 - 1:2,000
<b>Immunohistochemistry</b>	1:200 - 1:1,000
<b>Other Assays</b>	User Optimized
<b>Expiration</b>	Expiration date is one (1) year from date of opening.
<b>Immunogen</b>	Rb2 (p130) peptide corresponding to a region near the C-terminus of the human protein conjugated to Keyhole Limpet Hemocyanin (KLH).
<b>General Reference</b>	Mayol, X., Grana, X., Baldi, A., Sang, N., Hu, Q. and Giordano, A. (1993) Cloning of a new member of the retinoblastoma gene family (pRb2) which binds to the E1A transforming domain. <i>Oncogene</i> 8: 2561-2566. Claudio, P., Howard, C., Baldi, A., DeLuca, A, Fu, Y., Condorelli, G., Sun, Y. Colburn, N., Calabretta, B. and Giordano, A. (1994) p130/pRb2 has growth suppressive properties similar to yet distinctive from retinoblastoma members pRb and p107. <i>Cancer Res.</i> 54: 5556-5560. Yeung, R., Bell, D., Testa, J., Mayol, X., Baldi, A., Grana, X., Klinga-Levan, K., Knudson, A. and Giordano, A. (1993) The retino- blastoma-related gene, RB2, maps to human chromosome 16q12 and rat chromosome 19. <i>Oncogene</i> 8: 3465-3468.
<b>Related Products</b>	

100-401-151

Anti-Cyclin A (RABBIT) Antibody - 100-401-151

200-301-174	Anti-p53 (MOUSE) Monoclonal Antibody - 200-301-174
600-401-398	Anti-ATM Protein Kinase S1981 (RABBIT) Antibody - 600-401-398
611-143-002	Anti-RABBIT IgG (H&L) (GOAT) Antibody DyLight™ 649 Conjugated - 611-143-002

## Related Links

NCBI - 172072597

<http://www.ncbi.nlm.nih.gov/protein/172072597>

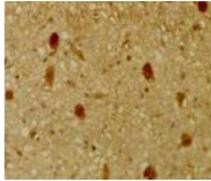
UniProtKB - Q08999

<http://www.uniprot.org/uniprot/Q08999>

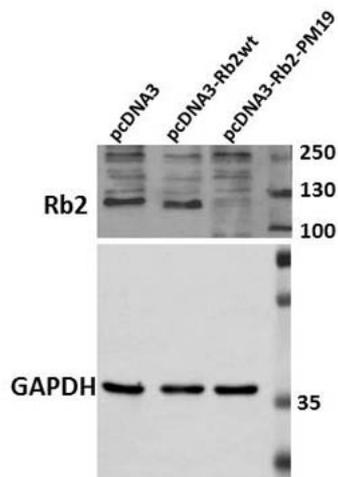
GeneID - 5934

## Images

- Immunohistochemical staining of mouse tissue using anti-pRb2/p130 antiserum. The staining shows the location of pRb2/p130 in developing mouse tissue. Other detection systems should yield similar results. Sections were cut at 5-7  $\mu$ m, mounted on glass and dried overnight at 37°C. All sections were deparaffinized in xylene, rehydrated through a graded alcohol series and washed in phosphate-buffered saline (PBS). PBS was used for all subsequent washes and for antiserum dilution. Tissue sections were quenched sequentially in 0.5% hydrogen peroxide and blocked with diluted 10% normal goat anti-rabbit serum. Slides were incubated at 20° C for 1 h with rabbit anti-pRb2/p130 (1:500) dilution, washed, and then reacted with diluted goat anti-rabbit biotinylated antibody for 30 min. Slides were then reacted with streptavidin-peroxidase conjugate for 30 min at 20° C. Diaminobenzidine was used as the final chromogen. Negative controls for each tissue section were prepared by substituting the primary antiserum with pre-immune serum.



- Western Blot of Rabbit Anti-Rb2 p130 Antibody. Lane 1: HEK 293 pcDNA3. Lane 2: HEK 293 pcDNA3-Rb2wt. Lane 3: HEK 293 pcDNA3-Rb2-PM19. Load: 30  $\mu$ g per lane. Primary antibody: Anti-Rb2 antibody at 1:250 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 130 kDa for p130/Rb2.



## 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.