

**Anti-Spa310 (pRb2/p130) (RABBIT) Antibody - 600-401-B11**
**Code:** 600-401-B11

**Size:** 100 µg

**Product Description:** Anti-Spa310 (pRb2/p130) (RABBIT) Antibody - 600-401-B11

**Concentration:** 1.39 mg/mL by UV absorbance at 280 nm

**PhysicalState:** Liquid (sterile filtered)

<b>Label</b>	Unconjugated
<b>Host</b>	Rabbit
<b>Gene Name</b>	RBL2
<b>Species Reactivity</b>	human, chimpanzee
<b>Buffer</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Stabilizer</b>	None
<b>Preservative</b>	0.1% (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-pRb2/p130 antibody, rabbit anti-pRb2 antibody, rabbit anti-p130 antibody, rabbit anti-Spa310 antibody, 130 kDa retinoblastoma associated protein antibody, RBR-2 antibody, RBL2 antibody, RB2 antibody, Retinoblastoma like 2 antibody, Retinoblastoma like protein 2 antibody, Retinoblastoma Related Gene antibody
<b>Application Note</b>	This affinity purified antibody is suitable for ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 130 kDa in size corresponding to pRb2/p130, and a band approximately 4.2kDa in size corresponding to Spa310 peptide (latter not shown), by western blotting in the appropriate cell lysate or extract.
<b>Background</b>	Spa310 is a 39 aa-long polypeptide encoded by a sequence which resides in the spacer region of the tumor suppressor Rb2 gene. Rb2 is a member of the retinoblastoma (Rb) gene family. Proteins in this family, which also include pRb/p105 and pRb/p107, are important cellular factors which play well-recognized roles as tumor and growth suppressors. Both p107 and pRb2/p130 share the ability to physically interact and inhibit the kinase activity of the Cdk2/Cyclin A and Cdk2/Cyclin E complexes, which play critical roles in cell cycle regulation. Spa310 is the region of the pRb2/p130 protein that is responsible for Cdk2/Cyclin E/A inhibition. Spa310 has also been shown to suppress cell growth as observed by colony formation, and to reduce volume of tumor growth in nude mice, likely through arrest in the G <sub>0</sub> /G <sub>1</sub> phase of the cell cycle. Understandably, the Spa310 small molecule represents a potentially significant pharmaceutical product in the treatment of hyperproliferative disorders.
<b>Purity And Specificity</b>	This antiserum is directed against Spa310 and reacts with the Spa310 domain of pRb2/p130 from human tissues. Based on the sequence we expect this antibody to react as well Spa310 from chimpanzee and orangutan, and with lesser affinity, Spa310 from horse, dog, bovine, rat and opossum.
<b>Assay Dilutions</b>	User Optimized
<b>ELISA</b>	1:75,000 - 1:100,000
<b>Western Blot</b>	1:500 - 1:5,000
<b>Other Assays</b>	User Optimized
<b>Expiration</b>	Expiration date is one (1) year from date of opening.
<b>Immunogen</b>	This affinity purified antibody was prepared by repeated immunizations with a synthetic peptide corresponding to the Spa310 sequence of pRb2/p130 protein. A residue of cysteine was added to facilitate coupling.
<b>General Reference</b>	Sun A., Bagella L., Tutton S., Romano G., Giordano A. (2007). From G <sub>0</sub> to S phase: A view of the roles played by the retinoblastoma (Rb) family members in the Rb-E2F pathway. <i>J Cell Biochem.</i> Nov 2; 102(6): 1400-1404. Bagella L., Sun A., Tonini T., Abbadessa G., Cottone G., Paggi M.G., De Luca A., Claudio P.P., Giordano A. (2007). A small molecule based on the pRb2/p130 spacer domain leads to inhibition of cdk2 activity, cell cycle arrest and tumor growth reduction in vivo. <i>Oncogene</i> Mar 22; 26(13):1829-39. D'Andrilli G, Masciullo V, Bagella L, Tonini T, Minimo C, Zannoni GF, Giuntoli RL 2nd, Carlson JA Jr, Soprano DR, Soprano KJ, Scambia G, Giordano A. (2004). Frequent loss of pRb2/p130 in human ovarian carcinoma. <i>Clin Cancer Res.</i> May 1; 10(9):3098-103.
<b>Related Products</b>	

100-401-151	Anti-Cyclin A (RABBIT) Antibody - 100-401-151
100-401-156	Anti-Cyclin E (RABBIT) Antibody - 100-401-156
100-401-161	Anti-cdk2 (RABBIT) Antibody - 100-401-161
100-4184	Anti-NFKB p105 (RABBIT) Antibody - 100-4184

## Related Links

UniProtKB - Q08999

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

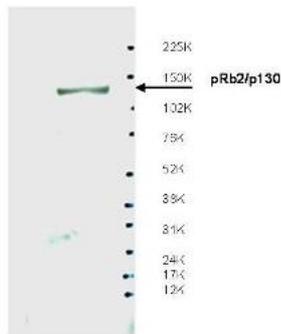
NCBI - Q08999.3 <http://www.ncbi.nlm.nih.gov/protein/Q08999.3>

GeneID - 5934

## Images

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Western blot using Rockland's affinity purified anti-Spa310 antibody shows detection of endogenous pRb2/p130 protein in whole LNCaP cell extracts. The band at ~130 kDa, indicated by the arrowhead, corresponds to the expected molecular weight of pRb2/p130. The membrane was blocked overnight with a milk buffer at 4° C. Primary antibody was diluted 1:500 and reacted with the membrane overnight at 4° C. ECL was used for detection. Personal communication, Ang Sun, Sbarro Institute for Cancer Research and Molecular Medicine, Temple University, Philadelphia, PA.



## Disclaimer

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