

Datasheet for 600-401-B11S

pRb2 p130 Antibody

Overview

Description:	Anti-Spa310 (pRb2/p130) (RABBIT) Antibody - 600-401-B11S
Item No.:	600-401-B11S
Size:	25 µL
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	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 0 /G 1 phase of the cell cycle. Understandably, the Spa310 small molecule represents a potentially significant pharmaceutical product in the treatment of hyperproliferative disorders.
Synonyms:	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
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	RBL2
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Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	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.
Purity/Specificity:	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.
Relevant Links:	• UniProtKB - Q08999 • NCBI - Q08999.3 • GeneID - 5934

Application Details

Tested Applications:	ELISA, WB
Application Note:	This affinity purified antibody is tested 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:75,000 - 1:100,000
IP:	1:100
WB:	1:500 - 1:5,000

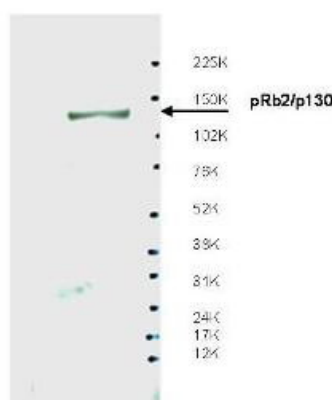
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.39 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.1% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is three (3) months from date of receipt.

Images



Western Blot

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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