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Anti-RB2 Antibody

Catalog # AP51468

Product Information

Application	WB, IF/IC
Primary Accession	Q08999
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	128367

Additional Information

Gene ID	5934
Other Names	RB2; Retinoblastoma-like protein 2; 130 kDa retinoblastoma-associated protein; p130; Retinoblastoma-related protein 2; RBR-2; pRb2
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human RB2. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

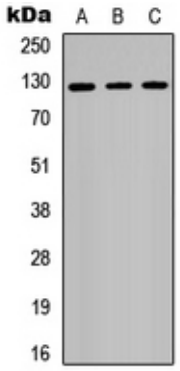
Protein Information

Name	RBL2
Synonyms	RB2
Function	Key regulator of entry into cell division. Directly involved in heterochromatin formation by maintaining overall chromatin structure and, in particular, that of constitutive heterochromatin by stabilizing histone methylation. Recruits and targets histone methyltransferases KMT5B and KMT5C, leading to epigenetic transcriptional repression. Controls histone H4 'Lys-20' trimethylation. Probably acts as a transcription repressor by recruiting chromatin-modifying enzymes to promoters. Potent inhibitor of E2F-mediated trans-activation, associates preferentially with E2F5. Binds to cyclins A and E. Binds to and may be involved in the transforming capacity of the adenovirus E1A protein. May act as a tumor suppressor.
Cellular Location	Nucleus.

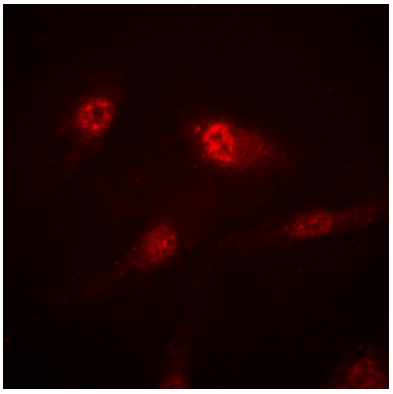
References

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Hannon G.J.,et al.Genes Dev. 7:2378-2391(1993).
Mayol X.,et al.Oncogene 8:2561-2566(1993).
Baldi A.,et al.Proc. Natl. Acad. Sci. U.S.A. 93:4629-4632(1996).
Canhoto A.J.,et al.Oncogene 19:5116-5122(2000).

Images



Western blot analysis of RB2 expression in Jurkat (A), NIHC3T3 (B), PC12 (C) whole cell lysates. (Predicted band size: 128 kD; Observed band size: 130 kD)



Immunofluorescent analysis of RB2 staining in Jurkat cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.