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Datasheet for ABIN2854790 anti-Retinoblastoma 1 antibody (C-Term)





Overview

Quantity:	100 µL
Target:	Retinoblastoma 1 (RB1)
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Retinoblastoma 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the C-terminus region of human Rb. The exact sequence is proprietary.
Isotype:	lgG
Cross-Reactivity:	Rhesus Monkey
Cross-Reactivity (Details):	Rhesus Monkey (100 %)
Characteristics:	Rabbit Polyclonal antibody to Rb (retinoblastoma 1) Rb antibody
Purification:	Purified by antigen-affinity chromatography.

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Target Details	
Target:	Retinoblastoma 1 (RB1)
Alternative Name:	Rb (RB1 Products)
Background:	The protein encoded by this gene is a negative regulator of the cell cycle and was the first tumor suppressor gene found. The encoded protein also stabilizes constitutive heterochromatin to maintain the overall chromatin structure. The active, hypophosphorylated form of the protein binds transcription factor E2F1. Defects in this gene are a cause of childhood cancer retinoblastoma (RB), bladder cancer, and osteogenic sarcoma.
	Cellular Localization: Nucleus
Molecular Weight:	106 kDa
Gene ID:	5925
Pathways:	Cell Division Cycle, Intracellular Steroid Hormone Receptor Signaling Pathway, Mitotic G1-G1/S Phases, DNA Replication, Maintenance of Protein Location, Synthesis of DNA, Autophagy

Application Details

Application Notes:	Suggested dilution Reference ICC/IF 1:100-1:1000* IHC (Formalin-fixed paraffin-embedded
	sections) 1:100-1:1000* Immunoprecipitation 1:100-1:500* Western blot 1:500-1:3000* Not
	tested in other applications. *Optimal dilutions/concentrations should be determined by the
	researcher.Suggested dilutionReferenceICC/IF1:100-1:1000* IHC (Formalin-fixed paraffin-
	embedded sections)1:100-1:1000* Immunoprecipitation1:100-1:500* Western blot1:500-
	1:3000*
Comment:	Positive Control: A431 , *CL1-0 , *CL1-5 ,
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	1XPBS, 20 % Glycerol (pH 7). 0.01 % Thimerosal was added as a preservative.
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

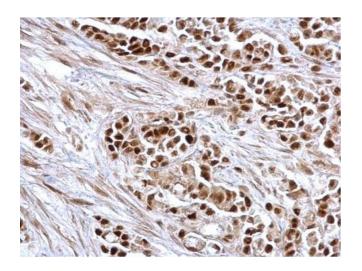
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Handling

Storage:-20 °CStorage Comment:Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw

Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Images

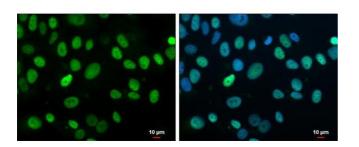


Immunohistochemistry

Image 1. IHC-P Image Rb antibody detects Rb protein at nucleus on human colon carcinoma by immunohistochemical analysis. Sample: Paraffin-embedded human colon carcinoma. Rb antibody , dilution: 1:500.

Immunofluorescence

Image 2. ICC/IF Image Rb antibody detects Rb protein at nucleus by immunofluorescent analysis. Sample: MCF7 cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: Rb protein stained by Rb antibody , diluted at 1:500. Blue: Hoechst 33342 staining. Scale bar = 10 µm.



А

В

KDa

170

130

100

70

55

40

Immunoprecipitation

Image 3. IP Image Rb antibody immunoprecipitates retinoblastoma 1 protein in IP experiments. IP samples: HeLa whole cell extract A. Control with 4 μ g of preimmune Rabbit IgG B. Immunoprecipitation of retinoblastoma 1 protein by 4 μ g Rb antibody , 7.5 % SDS-PAGE The immunoprecipitated retinoblastoma 1 protein was detected by Rb antibody , diluted at 1:500. [EasyBlot anti-rabbit IgG was used as a secondary reagent]

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