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Product data sheet

Rb Monoclonal Antibody (1F8)

Catalog Number MA1-34070

Details		Species Reactivity	
Size	500 µL	Species reactivity	Human, Mouse, Rat
Host/Isotope	Mouse / IgG1	Published species	Rat, Human, Mouse, Not Applicable
Class	Monoclonal	Tested Applications	Dilution *
Туре	Antibody	Immunohistochemistry (Paraffin) (IHC (P))	Assay-dependent
Clone	1F8	Immunoprecipitation (IP)	Assay-dependent
Immunogen	Recombinant full length protein (Human).	Western Blot (WB)	1:100-1:500
Conjugate	Unconjugated	Published Applications	
Form	Liquid	Immunohistochemistry (Paraffin)	See 3 publications below
Concentration	0.1 mg/mL	(IHC (P))	See 12 publications below
Storage Conditions	4° C, do not freeze	Immunohistochemistry (IHC) Western Blot (WB)	See 12 publications below
		Miscellaneous PubMed (Misc)	See 1 publications below
		Gel Shift (GS)	See 1 publications below
		Immunocytochemistry (ICC/IF)	See 1 publications below

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

A suggested positive control is K562 WCL.

Background/Target Information

Rb is a tumor suppressor nuclear phosphoprotein capable of binding to DNA. It is phosphorylated on serine and threonine, but not on tyrosine residues. It forms a complex with SV40 large T antigen, adenovirus E1A, and human papilloma virus-16 E. Rb protein may act by regulating transcription and loss of its function leads to uncontrolled cell growth. Aberrations in the RB gene have been implicated in cancers of breast, colon, prostate, kidney, nasopharynx, and leukemia.

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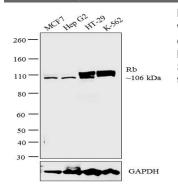
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Product Images For Rb Monoclonal Antibody (1F8)



Rb Antibody (MA1-34070) in WB

Western blot analysis was performed on modified whole cell extracts (1% SDS) (30 µg lysate) of MCF7 (Lane 1), Hep G2 (Lane 2), HT-29 (Lane 3) and K-562 (Lane 4). The blot was probed with Anti- Rb Monoclonal Antibody (Product # MA1-34070, 1:500 dilution) and detected by chemiluminescence using Goat anti Mouse IgG (H+L) Superclonal[™] Secondary Antibody, HRP conjugate (Product # A28177, 0.25 µg/mL, 1:4000 dilution). A 106 kDa band corresponding to Rb was detected across the cell lines tested.

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3 Immunohistochemist	ry (Paraffin) References
Species / Dilution	Summary
Human / Not Cited	MA134070 was used in immunohistochemistry - paraffin section to analyze high-risk HPV incidence, prognostic biomarkers, and outcome in HIV-positive and -negative patients with head and neck squamous cell cancer
	Molecular cancer research : MCR (2017; 15: 179) "High-Risk HPV, Biomarkers, and Outcome in Matched Cohorts of Head and Neck Cancer Patients Positive and Negative for HIV." Author(s):Walline HM,Carey TE,Goudsmit CM,Bellile EL,D'Souza G,Peterson LA,McHugh JB,Pai SI,Lee JJ,Shin DM, Ferris RL PubMed Article URL:http://dx.doi.org/10.1158/1541-7786.MCR-16-0255
Human / Not Cited	MA1-34070 was used in immunohistochemistry - paraffin section to run phase II single-arm trial of CDK4/6 inhibitor palbociclib in Rb-positive advanced breast cancer
	Clinical cancer research : an official journal of the American Association for Cancer Research (2015; 21: 995) "CDK 4/6 inhibitor palbociclib (PD0332991) in Rb+ advanced breast cancer: phase II activity, safety, and predictive biomarker assessment." Author(s):DeMichele A,Clark AS,Tan KS,Heitjan DF,Gramlich K,Gallagher M,Lal P,Feldman M,Zhang P,Colameco C, Lewis D,Langer M,Goodman N,Domchek S,Gogineni K,Rosen M,Fox K,O'Dwyer P PubMed Article URL:http://dx.doi.org/10.1158/1078-0432.CCR-14-2258
	MA1-34070 was used in immunohistochemistry - paraffin section to determine the role and diagnostic efficacy of RB1, CDK4, CHMP2B, HSP90, and cPLA2G4A as markers in myxofibrosarcomas and myxoid liposarcomas
Human / 1:100	International journal of surgical pathology (2014; 22: 589) "Immunohistochemical analysis of expressions of RB1, CDK4, HSP90, cPLA2G4A, and CHMP2B is helpful in distinction between myxofibrosarcoma and myxoid liposarcoma." Author(s):Wang T,Goodman MA,McGough RL,Weiss KR,Rao UN PubMed Article URL:http://dx.doi.org/10.1177/1066896914532539
12 Immunohistochemis	try References
Species / Dilution	Summary
	MA1-34070 was used in immunohistochemistry to study p53, p16 and Rb protein expression and the clinicopathology of patients with locally advanced urinary bladder cancer
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Human / Not Cited	MA1-34070 was used in immunohistochemistry to study the molecular determinants of the response to radiotherapy in oral carcinoma
	International journal of cancer (2004; 109: 710) "p53, p16 and cyclin D1: molecular determinants of radiotherapy treatment response in oral carcinoma." Author(s):Jayasurya R,Francis G,Kannan S,Lekshminarayanan K,Nalinakumari KR,Abraham T,Abraham EK,Nair MK PubMed Article URL:http://dx.doi.org/10.1002/ijc.20042
Human / Not Cited	MA1-34070 was used in immunohistochemistry to study the effects of epigenetic silencing of p14ARF on the subcellular localization of MDM2
	Cancer research (2001; 61: 2816) "p14ARF silencing by promoter hypermethylation mediates abnormal intracellular localization of MDM2." Author(s):Esteller M,Cordon-Cardo C,Corn PG,Meltzer SJ,Pohar KS,Watkins DN,Capella G,Peinado MA,Matias-Guiu X, Prat J,Baylin SB,Herman JG PubMed Article URL:http://www.ncbi.nlm.nih.gov/pubmed/11306450

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Human / 1:400 Cancer (2009; 115: 334) "Defining a molecular phenotype for benign and malignant parathyroid tumors." Author(s):Fernandez-Ranvier GG, Khanslehar E, Tacha D, Wong M, Kebebew E, Duh GY, Clark OH PubMed Artice URL:http://dx.doi.org/10.1002/cnr2.4037 Human / 1:200 MA1-34070 was used in immunohistochemistry to investigate the expression of double-strand break repair genes in non- small cell lung cancer." Human / 1:200 Clinical cancer research : an official journal of the American Association for Cancer Research (2007; 13: 832) "Epigenetic inactivation of the chromosomal stability control genes BRCA1, BRCA2, and XRCC5 in non-small cell lung cancer." Author(s):Lee MN Tseng RC, Hsu HS, Chen JY, Tzao C, Ho WL, Wang YC PubMed Artice URL:http://dx.doi.org/10.1158/1078-0432 CCR-08-2694 Human / Not Cited MA1-34070 was used in immunohistochemistry to identify biomarkers to classify primary cutaneous B-cell lymphomas." Author(s):Kaune KM. Meumann C, Haltermann C, Halter F, Schön MP, Middel P PubMed Artice URL:http://dx.doi.org/10.1111/j.1600-0625.2010.0122b x Human / Not Cited Annals of surgical ancelogy (2011; 18: 566) "Proprostic significance of the alterations of the G1-S checkpoint in localized leiomyosarcoma of the peripheral soft tissue." Author(s):Panee U. Human / Not Cited Human / Not Cited Greecologi concology (2017; 18: 207) "Human / Not Cited Greecologi concology (2017; 10: 207) "Human / Not Cited Greecologi concology (2017; 10: 1059) <tr< td=""><td>"Molecular and immunohistochemical analysis of the prognostic value of cell-cycle regulators in urothelial neoplasms of the bladder." Author(s):Yurakh AO,Ramos D,Calabuig-Fariñas S,López-Guerrero JA,Rubio J,Solsona E,Romanenko AM,Vozianov AF, Pellin A,Llombart-Bosch A</td></tr<>		"Molecular and immunohistochemical analysis of the prognostic value of cell-cycle regulators in urothelial neoplasms of the bladder." Author(s):Yurakh AO,Ramos D,Calabuig-Fariñas S,López-Guerrero JA,Rubio J,Solsona E,Romanenko AM,Vozianov AF, Pellin A,Llombart-Bosch A
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	Species / Dilution	Summary

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