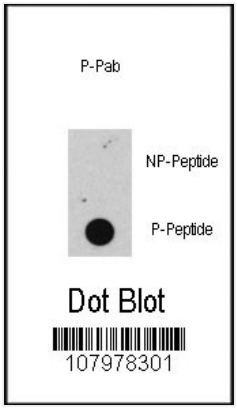
Phospho-Rb (S608) (RB1) Antibody – Rabbit Polyclonal

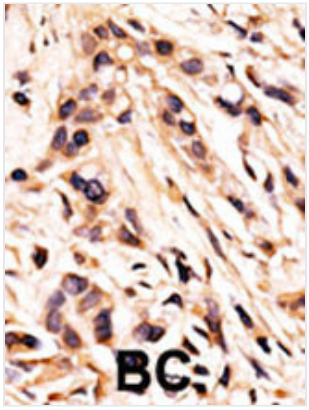
PRODUCT OVERVIEW

Product Name	Phospho-RB (S608) (RB1), Polyclonal Antibody
Full Product Name	Phospho-RB (S608) Antibody
Product Gene Name	anti-RB1 antibody
Product Synonym Names	Retinoblastoma-associated protein; p105-Rb; pRb; Rb; pp110; RB1
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This RB Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S608 of human RB.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	RB (S608) peptide (MBS9225061) is used for blocking the activity of RB (S608) antibody (MBS9208109)
Molecular Weight	106159
OMIM	109800
3D Structure	ModBase 3D Structure for P06400
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-RB1 antibody	Cancer; Cell Biology; Phospho Antibodies
Applications Tested/Suitable for anti-RB1 antibody	Dot Blot (DB), ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-RB1 antibody	DB~~1:500 IHC~~1:50~100
Related Product Information for anti-RB1 antibody	Retinoblastoma (RB) is an embryonic malignant neoplasm of retinal origin. It almost always presents in early childhood and is often bilateral. Spontaneous regression ('cure') occurs in some cases.
Product References and Citations for anti-RB1 antibody	Dasgupta, P., et al., Mol. Cell. Biol. 24(21):9527-9541 (2004). Cui, X., et al., Hum. Pathol. 35(10):1189-1195 (2004). Borah, S., et al., J. Virol. 78(19):10336-10347 (2004). Dasgupta, P., et al., J. Biol. Chem. 279(37):38762-38769 (2004). Lohmann, D.R., et al., J. Biol. Chem. 129(1):23-28 (2004).

Other Notes	Small volumes of anti-RB1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RB1 purchase	MBS9208109 is an antibody targeting RB1. Also known as Phospho-RB (S608) Antibody. Reactive in Human. Host: Rabbit.



Dot Blot (DB) of anti-RB1 antibody
Dot blot analysis of anti-Phospho-RB-S608 Antibody on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.



Immunohistochemistry (IHC) of anti-RB1 antibody
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RB1. It may not necessarily be applicable to this product.

NCBI GI #	108773787
NCBI GeneID	5925
NCBI Accession #	NP_000312.2
UniProt Primary Accession #	P06400
UniProt Secondary Accession #	P78499; Q5VW46; Q8IZL4; A8K5E3
UniProt Related Accession #	P06400
GenBank Nucleotide #	NM_000321.2
NCBI Official Full Name	retinoblastoma-associated protein
NCBI Official Synonym Full Names	retinoblastoma 1
NCBI Official Symbol	RB1
NCBI Official Synonym Symbols	RB; pRb; OSRC; pp110; p105-Rb; PPP1R130
UniProt Protein Name	Retinoblastoma-associated protein
UniProt Synonym Protein Names	p105-Rb; pRb; Rb; pp110
Protein Family	Retinoblastoma-associated protein
UniProt Gene Name	RB1
UniProt Synonym Gene Names	Rb
UniProt Entry Name	RB_HUMAN
NCBI Protein Information	retinoblastoma-associated protein

NCBI Summary for RB1	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. [provided by RefSeq, Jul 2008]
UniProt Comments for RB1	Rb: retinoblastoma tumor suppressor protein regulates cell proliferation by controlling progression through the G1-phase restriction point. Has three distinct binding domains and interacts with regulatory proteins including the E2F family of transcription factors, c-Abl tyrosine kinase and proteins with a conserved LXCXE motif. Cell cycle-dependent phosphorylation by Cdks inhibits Rb target binding, thus allowing cell cycle progression. Recruits and targets histone methyltransferase suv39h1 leading to epigenetic transcriptional repression. Protein type: Transcription, coactivator/corepressor; Tumor suppressor; Oncoprotein; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 13q14.2 Cellular Component: nucleoplasm; SWI/SNF complex; PML body; Rb-E2F complex; spindle; chromatin; nucleus Molecular Function: identical protein binding; protein binding; androgen receptor binding; DNA binding; ubiquitin protein ligase binding; transcription coactivator activity; phosphoprotein binding; kinase binding; transcription factor binding; transcription factor activity Biological Process: viral reproduction; sister chromatid biorientation; positive regulation of transcription, DNA-dependent; negative regulation of transcription from RNA polymerase II promoter, mitotic; regulation of mitotic cell cycle; neuron maturation; cell cycle arrest; positive regulation of macrophage differentiation; neurite development; negative regulation of epithelial cell proliferation; transcription, DNA-dependent; mitotic cell cycle checkpoint; negative regulation of transcription factor activity; regulation of lipid kinase activity; enucleate erythrocyte differentiation; myoblast differentiation; G1/S-specific transcription in mitotic cell cycle; chromatin remodeling; neuron apoptosis; maintenance of mitotic sister chromatid cohesion; gut development; cell division; neuron morphogenesis during differentiation; negative regulation of smoothened signaling pathway; androgen receptor signaling pathway; Ras protein signal transduction; positive regulation of mitotic metaphase/anaphase transition; negative regulation of protein kinase activity; striated muscle cell differentiation; positive regulation of transcription from RNA polymerase II promoter; mitotic cell cycle; negative regulation of transcription, DNA-dependent; cell cycle checkpoint; G1/S transition of mitotic cell cycle Disease: Bladder Cancer; Osteogenic Sarcoma; Small Cell Cancer Of The Lung; Retinoblastoma
Research Articles on RB1	**1.** Two RB1 mutations were found in the tumor; one RB1 mutation was present in 10% of blood cells, identifying mosaicsm.
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