

RB1 recombinant antibody

Phospho-RB1 (S780) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA235586	Rabbit	Human	Immunoprecipitation, Immunofluorescence, Immunohistochemistry, ELISA

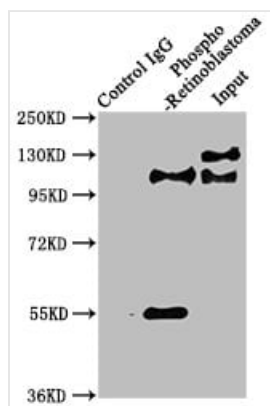
PRODUCT SYNONYMS

RB1; Monoclonal Recombinant Antibody; Phospho-RB1 (S780) Antibody; Retinoblastoma-associated protein; p105-Rb; pRb; Rb; pp110; RB1 recombinant antibody

PRODUCT SPECIFICATIONS

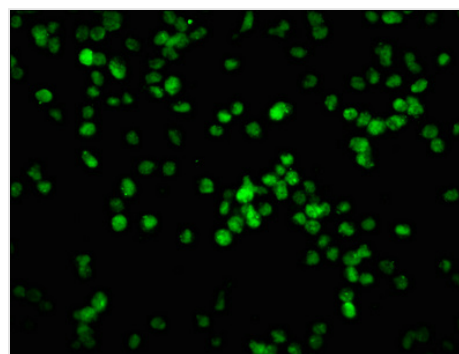
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Purity/Purification	Affinity-Chromatography
Form/Format	Liquid; In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Sequence Length	928
Applicable Applications for RB1 recombinant antibody	IP (Immunoprecipitation), IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA
Immunogen Species	Human
Immunogen	A synthesized peptide derived from human Phospho-RB1 (S780)
Conjugate	Non-Conjugated
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.

IMAGES



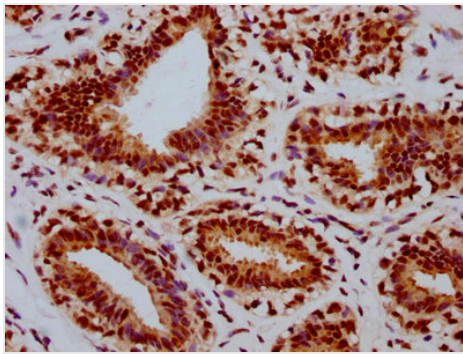
IP (Immunoprecipitation)

Immunoprecipitating Phospho-RB1 in HeLa whole cell lysate. Lane 1: Rabbit control IgG (1ug) instead of CSB-RA019386A780phHU in HeLa whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000). Lane 2: CSB-RA019386A780phHU (3ug) + HeLa whole cell lysate (1mg). Lane 3: HeLa whole cell lysate (20ug).



IF (Immunofluorescence)

Immunofluorescence staining of K562 cells with CSB-RA019386A780phHU at 1:100, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4 degree C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).



IHC (Immunohistochemistry)

IHC image of CSB-RA019386A780pHU diluted at 1:100 and staining in paraffin-embedded human breast cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4 degree C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

ADDITIONAL INFORMATION

Related Product Information for RB1 recombinant antibody	Key regulator of entry into cell division that acts as a tumor suppressor. Promotes G0-G1 transition when phosphorylated by CDK3/cyclin-C. Acts as a transcription repressor of E2F1 target genes. The underphosphorylated, active form of RB1 interacts with E2F1 and represses its transcription activity, leading to cell cycle arrest. 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 SUV39H1, KMT5B and KMT5C, leading to epigenetic transcriptional repression. Controls histone H4 'Lys-20' trimethylation. Inhibits the intrinsic kinase activity of TAF1. Mediates transcriptional repression by SMARCA4/BRG1 by recruiting a histone deacetylase (HDAC) complex to the c-FOS promoter. In resting neurons, transcription of the c-FOS promoter is inhibited by BRG1-dependent recruitment of a phospho-RB1-HDAC1 repressor complex. Upon calcium influx, RB1 is dephosphorylated by calcineurin, which leads to release of the repressor complex (By similarity). In case of viral infections, interactions with SV40 large T antigen, HPV E7 protein or adenovirus E1A protein induce the disassembly of RB1-E2F1 complex thereby disrupting RB1's activity.
Product Categories/Family for RB1 recombinant antibody	Recombinant Antibody ; Cell Biology

NCBI AND UNIPROT INFORMATION

NCBI GI #	108773787
NCBI GeneID	5925
NCBI Accession #	NP_000312.2
NCBI GenBank Nucleotide #	NM_000321.2
UniProt Accession #	P06400 ; P78499 ; Q5VW46 ; Q8IZL4 ; A8K5E3
Molecular Weight	106,159 Da
NCBI Official Full Name	retinoblastoma-associated protein
NCBI Official Synonym Full Names	RB transcriptional corepressor 1
NCBI Official Symbol	RB1
NCBI Official Synonym Symbols	RB; pRb; OSRC; pp110; p105-Rb; PPP1R130
NCBI Protein Information	retinoblastoma-associated protein
UniProt Protein Name	Retinoblastoma-associated protein
UniProt Gene Name	RB1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/monoclonal/rb1-recombinant-antibody-immunoprecipitation-immunofluorescence-immunohistochemistry-elisa/235586>