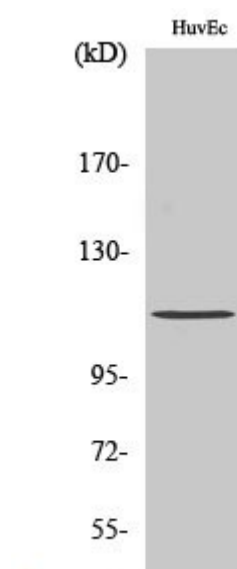


Product name:	Phospho-Rb (S807) Rabbit Polyclonal Antibody
Cat number:	ABP-0642
Conjugate:	Unconjugated
Size:	100 ug
Clone:	Poly
Concentration:	1mg/ml
Host:	Rb
Isotype:	IgG
Immunogen:	Synthesized peptide derived from human Rb around the phosphorylation site of S807
Reactivity:	Hu, Ms, Rt
Applications:	Western Blot: 1:1000-1:2000 Immunohistochemistry: 1:100-1:300 ELISA 1:10000
Molecular Weight:	106kDa
Purification:	The antibody was affinity-purified from rabbit antiserum by affinitychromatography using epitope-specific immunogen.
Form:	liquid
Buffer:	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage:	Store at -20°C, and avoid repeat freeze-thaw cycles.



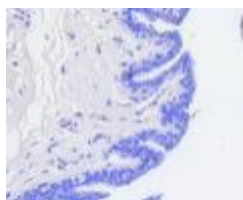
Background:

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. 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. Phospho-Rb (S807) Polyclonal Antibody detects endogenous levels of Rb protein only when phosphorylated at S807.

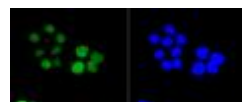


St John's Laboratory

Western Blot (WB) analysis of specific cells using Phospho-Rb (S807)



Immunohistochemistry Paraffin embedded tissues of human mammary cancer



Immunofluorescence CRC cells