### Rb Rabbit mAb

Catalog No: #52090

Package Size: #52090-1 50ul #52090-2 100ul



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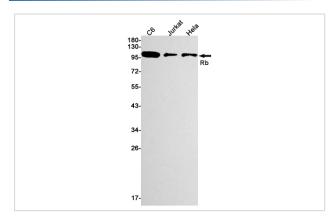
# Description

Product Name	Rb Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S09-8G7
Isotype	Rabbit IgG
Purification	Affinity Purified
Applications	WB
Species Reactivity	Human,Mouse,Rat
Immunogen Description	Recombinant protein of mouse Rb
Conjugates	Unconjugated
Modification	Unmodification
Other Names	p110-RB1;pRb;pp105
Accession No.	Swiss-Prot:P13405GeneID:19645
Uniprot	P13405
GeneID	19645
Calculated MW	Calculated MW: 106 kDa; Observed MW: 106 kDa
Concentration	0.3 mg/ml
Formulation	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

# Application Details

WB: 1/1000;

#### **Images**



Western blot detection of Rb in C6,Jurkat,Hela cell lysates using Rb Rabbit mAb(1:1000 diluted).Predicted band size:106kDa.Observed band size:106kDa.

#### Background

Tumor suppressor that is a key regulator of the G1/S transition of the cell cycle (PubMed:8336704).

The hypophosphorylated form binds transcription regulators of the E2F family, preventing transcription of E2F-responsive genes. Both physically blocks E2Fs transactivating domain and recruits chromatin-modifying enzymes that actively repress transcription. Cyclin and CDK-dependent phosphorylation of RB1 induces its dissociation from E2Fs, thereby activating transcription of E2F responsive genes and triggering entry into S phase. RB1 also promotes the G0-G1 transition upon phosphorylation and activation by CDK3/cyclin-C. Directly involved in heterochromatin formation by maintaining overall chromatin structure and, in particular, that of constitutive heterochromatin by stabilizing histone methylation (PubMed:15750587).

Recruits and targets histone methyltransferases SUV39H1, KMT5B and KMT5C, leading to epigenetic transcriptional repression. Controls histone H4 'Lys-20' trimethylation (PubMed:16612004).

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) (PubMed:15750587, PubMed:16612004, PubMed:8336704).

Note: This product is for in vitro research use only