

Rb (Phospho-Ser811) Rabbit mAb

Catalog No: #52547

Package Size: #52547-1 50ul #52547-2 100ul

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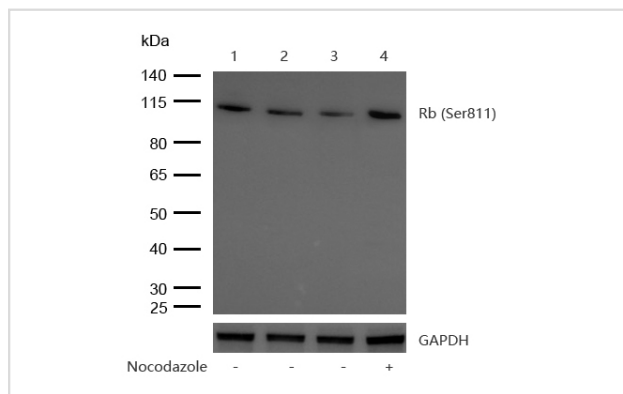
Description

Product Name	Rb (Phospho-Ser811) Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	S01-2G6
Isotype	Rabbit IgG
Purification	Affinity Purified
Applications	WB
Species Reactivity	Human,Mouse,Rat
Immunogen Description	A synthetic phosphopeptide corresponding to residues surrounding Ser811 of human Rb
Conjugates	Unconjugated
Modification	Phosphorylated
Other Names	RB; pRb; OSRC; pp110; p105-Rb; PPP1R130
Accession No.	Swiss-Prot:P06400GenelD:5925
Calculated MW	Predicted band size: 106 kDa
SDS-PAGE MW	Observed band size: 110 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: 1:500-1:2000

Images



All lanes : Rb (Phospho-Ser811) Rabbit mAb at 1/1k dilution
 Lane 1 : Hela whole cell lysates
 Lane 2 : K562 whole cell lysates
 Lane 3 : 3T3 whole cell lysates
 Lane 4 : 3T3 treated with 100 ng/ml Nocodazole for 12 hours whole cell lysates
 Lysates/proteins at 20 µg per lane.
 Secondary All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution
 Predicted band size: 106 kDa Observed band size: 110 kDa
 Exposure time: 5 seconds

Background

Swiss-Prot Acc.P06400.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 .

Note: This product is for in vitro research use only and is not intended for use in humans or animals.