

# Anti-Phospho-Rb (Ser780) RB1 Antibody

Catalog Number: P00039

#### **About RB1**

Key regulator of entry into cell division that acts as a tumor suppressor. 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, SUV420H1 and SUV420H2, leading to epigenetic transcriptional repression. Controls histone H4 'Lys-20' trimethylation. Inhibits the intrinsic kinase activity of TAF1. 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.

Roesch A, et al.(2005) Mod Pathol. 18(4): 565-572. Huang H, et al.(2004)Oncogene. 23(12): 2161-2176. Kitagawa M, et al.(1996)EMBO J. 15(24): 7060-7069.

#### Overview

Product Name	Anti-Phospho-Rb (Ser780) RB1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Phospho-Rb (Ser780) RB1 Antibody (Catalog # P00039). Tested in WB, IHC, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	IF, IHC, WB
Clonality	Polyclonal 2F1
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P06400

### **Technical Details**

Immunogen	Peptide sequence around phosphorylation site of serine 780 (T-L-S(p)-P-I) derived from Human Rb.
Predicted Reactive Species	Chimpanzee, Macaque
Isotype	IgG
Form	Liquid



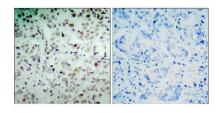




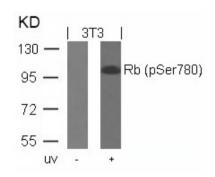
Concentration	1 mg/ml
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.  If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.  Some PubMed article(s) citing the expression level of this target are as follows:  Boster Bio's internal QC testing used:  Predicted MW: 110kd  Western blotting: 1:500~1:1000  Immunohistochemistry: 1:50~1:100  Immunofluorescence: 1:100~1:200



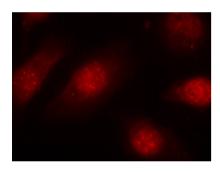
## Anti-Phospho-Rb (Ser780) RB1 Antibody (P00039) Images



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Rb(Phospho-Ser780) antibody P00039(left) or the same antibody preincubated with blocking peptide(right).



Western blot analysis of extracts from 3T3 cells untreated or treated with UV using Rb(Phospho-Ser780) antibody P00039.



Immunofluorescence staining of methanol-fixed Hela cells using Rb(Phospho-Ser780) antibody P00039.

# 1 Publications Citing This Product

1. PubMed ID: 26379831, Effects of sericin on the testicular growth hormone/insulin-like growth factor-1 axis in a rat model of type 2 diabetes

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