Datasheet for ABIN7180079

anti-Retinoblastoma 1 antibody (Ser608)

2 Images

Go to Product page

Overview

Quantity:	100 µL
Target:	Retinoblastoma 1 (RB1)
Binding Specificity:	Ser608
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Retinoblastoma 1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Synthesized non-phosphopeptide derived from Human Retinoblastoma around the phosphorylation site of serine 608 (Y-L-S(p)-P-V).
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Target Details

Target:	Retinoblastoma 1 (RB1)
Alternative Name:	RB1 (RB1 Products)

Target Details

Background:	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, SUV420H1 and SUV420H2, 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. Lee W.-H., Nature 329:642-645(1987). Lee W.-H., Science 235:1394-1399(1987). Friend S.H., Proc. Natl. Acad. Sci. U.S.A. 84:9059-9063(1987). Aliases: Exon 17 tumor GOS561 substitution mutation causes premature stop antibody, GOS563 exon 17 substitution mutation causes premature stop antibody, OSRC antibody, Osteosarcoma antibody, p105-Rb antibody, P105RB antibody, PP105 antibody, pp110 antibody, PPP1R130 antibody, pRb antibody, Prepro retinoblastoma associated protein antibody, Protein phosphatase 1 regulatory subunit 130 antibody, Rb antibody, RB transcriptional corepressor 1 antibody, RB_HUMAN antibody, RB1 antibody, RB1 gene antibody, Retinoblastoma 1 antibody, Retinoblastoma suspectibility protein antibody, Retinoblastoma-associated protein antibody
UniProt:	P06400
Pathways:	Cell Division Cycle, Intracellular Steroid Hormone Receptor Signaling Pathway, Mitotic G1-G1/S Phases, DNA Replication, Maintenance of Protein Location, Synthesis of DNA, Autophagy

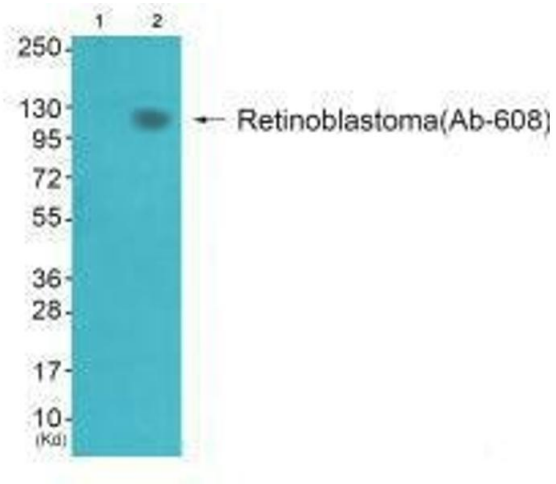
Application Details

Application Notes:	WB:1:500-1:3000,
Restrictions:	For Research Use only

Handling

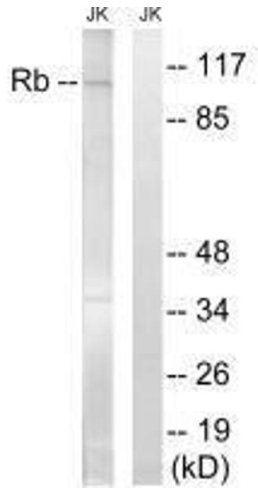
Format:	Liquid
Buffer:	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Western Blotting

Image 1. Western blot analysis of extracts from JK cells (Lane 2), using Retinoblastoma (Ab-608) antiobdy. The lane on the left is treated with synthesized peptide.



Western Blotting

Image 2. Western blot analysis of extracts from Jurkat cells, treated with PMA (125 ng/mL, 30 mins), using Retinoblastoma (Ab-608) antibody.