antibodies -online.com







anti-Retinoblastoma 1 antibody (pSer807)





_					
U	V	er	V	Ie	W

Quantity:	100 μL
Target:	Retinoblastoma 1 (RB1)
Binding Specificity:	pSer807
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Retinoblastoma 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human Retinoblastoma around the phosphorylation site of Ser807.
Isotype:	IgG
Specificity:	Phospho-Retinoblastoma (Ser807) Antibody detects endogenous levels of Retinoblastoma only when phosphorylated at Serine 807.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Dog,Chicken,Xenopus
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

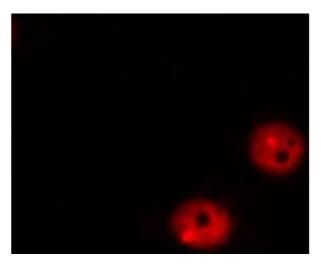
Target Details

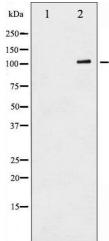
Target:	Retinoblastoma 1 (RB1)	
Alternative Name:	RB1 (RB1 Products)	
Background:	Description: Key regulator of entry into cell division that acts as a tumor suppressor. Promotes	
	G0-G1 transition when phosphorylated by CDK3/cyclin-C. Acts as a transcription repressor of	
	E2F1 target genes. The underphosphorylated, 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 o	
	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 represso	
	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.	
	Gene: RB1	
Molecular Weight:	106kDa	
Gene ID:	5925	
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 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	1 mg/mL	
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 %	

Handling

	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
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Images



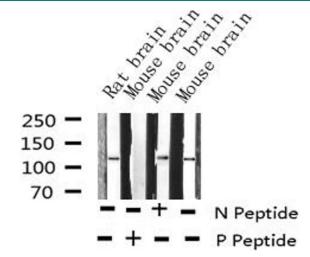


Immunofluorescence (fixed cells)

Image 1. ABIN6267317 staining MOLT by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

Western Blotting

Image 2. Western blot analysis of Retinoblastoma phosphorylation expression in serum treated K562 whole cell lysates,The lane on the left is treated with the antigenspecific peptide.



Western Blotting

Image 3. Western blot analysis of Phospho-Retinoblastoma (Ser807) expression in various lysates

Please check the product details page for more images. Overall 4 images are available for ABIN6256428.