

Anti-Phospho-RB1 (Ser807) Antibody (6Y72)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	6Y72
Purification:	Affinity-chromatography

Applications

Verified Activity:	Immunofluorescence staining of K562 cells with TMAH-00957 at 1:100, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).
Application:	ELISA, IF
Recommended	IF:1:20-1:200.

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: Human Phospho-RB1 (S807)
Antigen Species:	Human
Gene ID:	5925
Uniprot ID:	P06400
Synonyms:	RB1 (p-Ser807);PP105;RB transcriptional corepressor 1;p-RB1 (S807);pRb;RB1 (p-S807);Retinoblastoma-associated protein;PPP1R130;Exon 17 tumor GOS561 substitution mutation causes premature stop;pp110;p-RB1 (Ser807);RB 1;Rb;Osteosarcoma;Retinoblastoma susceptibility protein;OSRC;P105RB;Prepro retinoblastoma associated protein;Protein phosphatase 1 regulatory subunit 130;Retinoblastoma 1;Phospho-RB1 (S807);p105-Rb
Biology Area:	Cell Biology

Research Background

Tumor suppressor that is a key regulator of the G1/S transition of the cell cycle. 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

A DRUG SCREENING EXPERT

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. (Microbial infection) 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481