Phospho-RB1 (S780) Recombinant Antibody

RACO0129

Product Information

Size:

50ul

Reactivity:

Human

Source:

Human

Isotype:

Rabbit IgG

Applications:

ELISA, IHC, IF, IP

Recommended dilutions:

IHC:1:50-1:200, IF:1:20-1:200, IP:1:200-1:1000

Protein 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, KMT5B and KMT5C, leading to epigenetic transcriptional repression. Controls histone H4 'Lys-20' trimethylation. Inhibits the intrinsic kinase activity of TAF1.

Gene ID:

RB1

Uniprot

P06400

Synonyms:

Retinoblastoma-associated protein, p105-Rb, pRb, Rb, pp110, RB1

Immunogen:

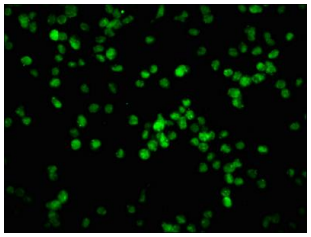
A synthesized peptide derived from human Phospho-RB1 (S780).

Storage:

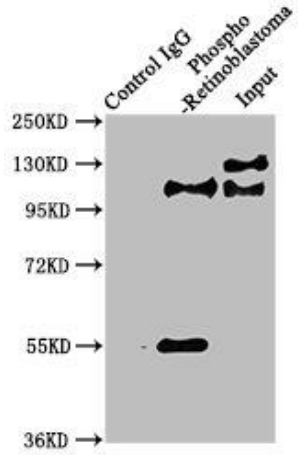
Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

 info@assaygenie.com

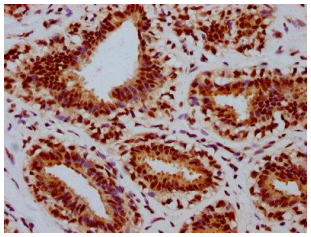
Product Images



Immunofluorescence staining of K562 cells with RACO0129 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-congugated AffiniPure Goat Anti-Rabbit IgG (H+L).



Immunoprecipitating Phospho-RB1 in Hela whole cell lysate) Lane 1: Rabbit control IgG(1µg)instead of RACO0129 in Hela whole cell lysate) For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)
Lane 2: RACO0129(3µg)+ Hela whole cell lysate (1mg)
Lane 3: Hela whole cell lysate) (20µg)



IHC image of RACO0129 diluted at 1:100 and staining in paraffin-embedded human breast cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

