

Product Name: KD-Validated Phospho-Retinoblastoma (S780) Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01303

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 106.2kDa

Antigen Information

Gene Name	RB1
Alternative Names	RB1; RB Transcriptional Corepressor 1; PPP1R130; RB; Protein Phosphatase 1, Regulatory Subunit 130; Prepro-Retinoblastoma-Associated Protein; Retinoblastoma-Associated Protein; Retinoblastoma 1; P110-RB1; P105-Rb; Pp110; OSRC; PRb; Retinoblastoma Susceptibility Protein; Osteosarcoma; Rb
Gene ID	5925.0
SwissProt ID	P06400
Immunogen	A synthesized peptide derived from human Phospho-Rb (S780)

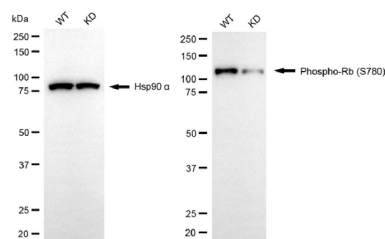
Background

The protein encoded by this gene is a negative regulator of the cell cycle and was the first tumor suppressor gene found. The encoded protein also stabilizes constitutive heterochromatin to maintain the overall chromatin structure. The active, hypophosphorylated form of the protein binds transcription factor E2F1. Defects in this gene are a cause of childhood cancer retinoblastoma (RB), bladder cancer, and osteogenic sarcoma. [provided by RefSeq, Jul 2008]

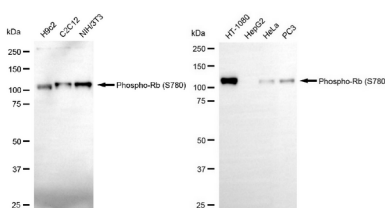
Research Area

Epigenetics and Nuclear Signaling, Developmental Biology

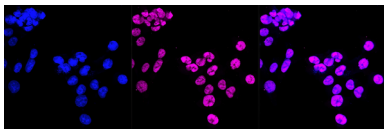
Image Data



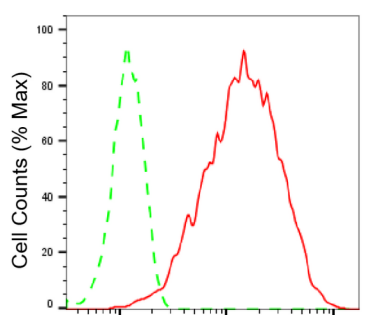
Western blotting analysis using phospho-Rb (S780) antibody (KVA01303). Phospho-Rb (S780) expression in wild type (WT) and RB1 knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with phospho-Rb (S780) antibody (KVA01303, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using phospho-Rb (S780) antibody (KVA01303). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with phospho-Rb (S780) antibody (KVA01303, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HAP-1 cells with Phospho-Rb (S780) antibody (KVA01303, 1:1,000). Nuclei were stained blue with DAPI; Phospho-Rb (S780) was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of Phospho-Rb (S780) expression in HAP-1 cells using Phospho-Rb (S780) antibody (KVA01303, 1:2,000). Green, isotype control; red, Phospho-Rb (S780).