Anti-Phospho-Rb (S608) Antibody [PSH11-04] - BSA and Azide free

HA751394

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Monkey
Applications:	WB, IF-Cell
Molecular Wt:	Predicted band size: 106 kDa
Clone number:	PSH11-04

Description: The retinoblastoma protein (protein name abbreviated Rb or pRb; gene name abbreviated Rb, RB or RB1) is a tumor suppressor protein that is dysfunctional in several major cancers. One function of pRb is to prevent excessive cell growth by inhibiting cell cycle progression until a cell is ready to divide. When the cell is ready to divide, pRb is phosphorylated, inactivating it, and the cell cycle is allowed to progress. It is also a recruiter of several chromatin remodeling enzymes such as methylases and acetylases. pRb belongs to the pocket protein family, whose members have a pocket for the functional binding of other proteins. Should an oncogenic protein, such as those produced by cells infected by high-risk types of human papillomavirus, bind and inactivate pRb, this can lead to cancer. The RB gene may have been responsible for the evolution of multicellularity in several lineages of life including animals.

Immunogen: Synthetic phospho-peptide corresponding to residues surrounding Ser608 of Human Rb.

Positive control: K-562 cell lysate, SH-SY5Y cell lysate, MCF7 cell lysate, COS-1 cell lysate, K-562.

Subcellular location: Nucleus, Cytoplasm.

Database links: SwissProt: P06400 Human

Recommended Dilutions:

WB	1:5,000
IF-Cell	1:100

Storage Buffer: 1*PBS (pH7.4).

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Images

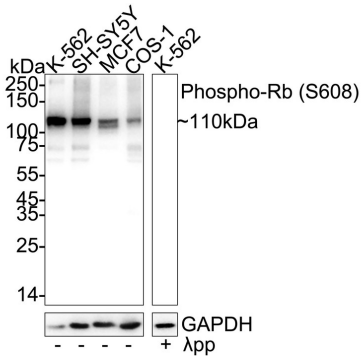

Fig1: Western blot analysis of Phospho-Rb (S608) on different lysates with Rabbit anti-Phospho-Rb (S608) antibody (HA751394) at 1/5,000 dilution.

Lane 1: K-562 cell lysate (no heat)
Lane 2: SH-SY5Y cell lysate (no heat)
Lane 3: MCF7 cell lysate (no heat)
Lane 4: COS-1 cell lysate (no heat)
Lane 5: K-562 cell lysate (no heat), the membrane treated with λpp for 1 hour

Notice: no heat means the lysate is not boiled.

Lysates/proteins at 20 µg/Lane.

Predicted band size: 106 kDa
Observed band size: 110 kDa

Exposure time: 12 seconds; ECL: K1801;
4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA751394) at 1/5,000 dilution was used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

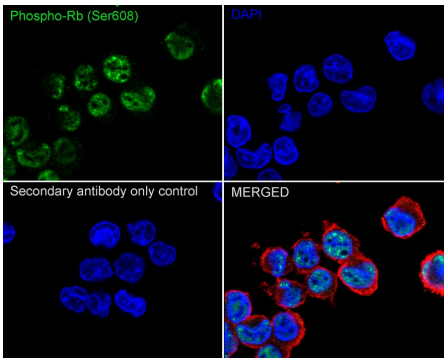

Fig2: Immunocytochemistry analysis of K-562 cells labeling Phospho-Rb (S608) with Rabbit anti-Phospho-Rb (S608) antibody (HA751394) at 1/100 dilution.

Cells were fixed in 4% paraformaldehyde for 15 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-Phospho-Rb (S608) antibody (HA751394) at 1/100 dilution in 1% BSA in PBST overnight at 4 ℃. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (HA601187 , red) was stained at 1/100 dilution overnight at +4℃. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

Background References

1. Ni XC et al. Ginsenoside Rb1 inhibits astrocyte activation and promotes transfer of astrocytic mitochondria to neurons against ischemic stroke. Redox Biol. 2022 Aug
2. Qin GW et al. Ginsenoside Rb1 Inhibits Cardiomyocyte Autophagy via PI3K/Akt/mTOR Signaling Pathway and Reduces Myocardial Ischemia/Reperfusion Injury. Am J Chin Med. 2021