bsm-52197R **[Primary Antibody]**

Phospho-Rb (Ser807) Recombinant Rabbit mAb

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DATASHEET

Host: Rabbit
Isotype: IgG
Clonality: Recombinant
CloneNo.: 2D10
GeneID: 5925
SWISS: P06400
Target: Phospho-Rb (Ser807)
Immunogen: KLH conjugated Synthesised phosphopeptide derived from human Rb around the phosphorylation site of Ser807: YI(p-S)PLK.
Purification: affinity purified by Protein A
Concentration: 1mg/ml
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
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.
Rb is a tumor suppressor gene which functions as a negative regulator of the cell cycle by interacting with transcription factors including E2F1, PU1, ATF2, UBF, Elf1 and cAbl. This ability of Rb to alter transcription is regulated by phosphorylation catalyzed by the cyclin dependent protein kinases (cdks). Rb is phosphorylated on serine and threonine, but not on tyrosine residues. It forms a complex with SV40 large T antigen, adenovirus E1A, and human papilloma virus 16E. Rb protein may act by regulating transcription and loss of its function leads to uncontrolled cell growth. Aberrations in the Rb gene have been implicated in cancers of breast, colon, prostate, kidney, nasopharynx, and leukemia.

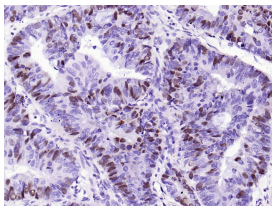
Applications: **WB** (1:500-2000)
IHC-P (1:50-200)
IHC-F (1:50-200)
IF (1:50-200)
ICC/IF (1:50-200)

Reactivity: Human (predicted: Mouse, Rat)

Predicted MW.: 102 kDa

Subcellular Location: Nucleus

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-Rb (Ser807)) Monoclonal Antibody, Unconjugated (bsm-52197R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=6.208]** Molin Li. et al. PPP3R1 Promotes MSCs Senescence by Inducing Plasma Membrane Depolarization and

Increasing Ca2+ Influx. INT J MOL SCI. 2023 Jan;24(5):4421 WB ;Mouse. 36901851

- **[IF=3.8]** Bang-Hua Zhong. et al. Transcription factor FOXF2 promotes the development and progression of pancreatic cancer by targeting MSI2. ONCOL REP. 2024 Jul;52(1):1-13 WB ;Human. 38847273