Leader in Biomolecular Solutions for Life Science

Phospho-RB-S807/811 Rabbit mAb

Catalog No.: AP1541

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Basic Information

Observed MW
110 kDa

Calculated MW
106 kDa

Category
Monoclonal Antibodies

Applications
WB, IP, IF/ICC, ELISA

Cross Reactivity
Human, Mouse

Clone No.
ARC3336

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.

Recommended Dilutions

WB 1:1000 - 1:2000

IP
0.5 μg - 4 μg antibody for 400 μg - 800 μg extracts of whole cells

IF/ICC 1:200 - 1:800

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
5925

Swiss-Prot
P06400

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
RB; pRb; OSRC; pp110; p105-Rb; PPP1R130; p110-RB1; Phospho-RB-S807/811

Contact

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

Product Information

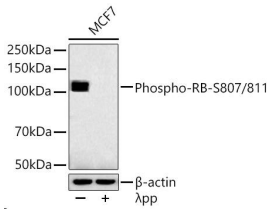
Source
Rabbit

Isotype
IgG

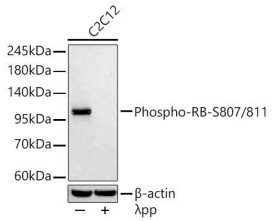
Purity
Affinity purification

Storage
Store at -20℃

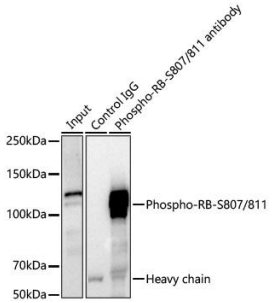
Validation Data



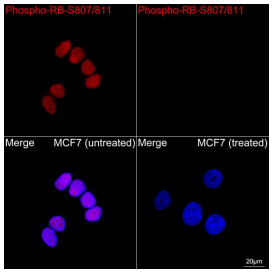
Western blot analysis of lysates from MCF7 cells using Phospho-RB-S807/811 Rabbit mAb (AP1541) at 1:1000 dilution incubated overnight at 4℃. MCF7 cells were treated by λ-PP mixed solution (1μl) at 30℃ for 30 minutes.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3 % nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60s.



Western blot analysis of lysates from C2C12 cells using Phospho-RB-S807/811 Rabbit mAb (AP1541) at 1:1000 dilution incubated overnight at 4℃. C2C12 cells were treated by λ-PP mixed solution (1μl) at 30℃ for 30 minutes.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3 % nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.



Immunoprecipitation of Phospho-RB-S807/811 from 900 μg extracts of MCF7 cells was performed using 1 μg of Phospho-RB-S807/811 Rabbit mAb (AP1541). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1X Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Phospho-RB-S807/811 Rabbit mAb (AP1541) at a dilution of 1 : 1000.



Confocal imaging of MCF7 cells (treated with λPP) and MCF7 cells (untreated) cells using Phospho-RB-S807/811 Rabbit mAb (AP1541, dilution 1:800) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.