

**KD-Validated Anti-Phospho-Retinoblastoma (S807) Rabbit Monoclonal Antibody**  
**Rabbit monoclonal antibody**  
**Catalog # AGI1377****Specification****KD-Validated Anti-Phospho-Retinoblastoma (S807) Rabbit Monoclonal Antibody - Product Information**

|                   |                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application       | WB, FC                                                                                                                                                                                                                                                                                                                                                                                                   |
| Primary Accession | <a href="#">P06400</a>                                                                                                                                                                                                                                                                                                                                                                                   |
| Reactivity        | Rat, Human, Mouse                                                                                                                                                                                                                                                                                                                                                                                        |
| Clonality         | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                               |
| Isotype           | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                                                               |
| Calculated MW     | Predicted, 106 kDa; observed, 106 kDa                                                                                                                                                                                                                                                                                                                                                                    |
| Gene Name         | KDa                                                                                                                                                                                                                                                                                                                                                                                                      |
| Aliases           | RB1<br>RB1; RB Transcriptional Corepressor 1;<br>PPP1R130; RB; Protein Phosphatase 1,<br>Regulatory Subunit 130;<br>Prepro-Retinoblastoma-Associated Protein;<br>Retinoblastoma-Associated Protein;<br>Retinoblastoma 1; P110-RB1; P105-Rb;<br>Pp110; OSRC; PRb; Retinoblastoma<br>Susceptibility Protein; Osteosarcoma; Rb<br>A synthesized peptide derived from human<br>Phospho-Retinoblastoma (S807) |
| Immunogen         |                                                                                                                                                                                                                                                                                                                                                                                                          |

**KD-Validated Anti-Phospho-Retinoblastoma (S807) Rabbit Monoclonal Antibody - Additional Information**

|                                                                           |      |
|---------------------------------------------------------------------------|------|
| Gene ID                                                                   | 5925 |
| <b>Other Names</b>                                                        |      |
| Retinoblastoma-associated protein, p105-Rb, p110-RB1, pRb, Rb, pp110, RB1 |      |

**KD-Validated Anti-Phospho-Retinoblastoma (S807) Rabbit Monoclonal Antibody - Protein Information****Name** RB1**Function**

Tumor suppressor that is a key regulator of the G1/S transition of the cell cycle (PubMed:<a href="http://www.uniprot.org/citations/10499802" target="\_blank">10499802</a>). The hypophosphorylated form binds transcription regulators of the E2F family, preventing transcription of E2F-responsive genes (PubMed:<a href="http://www.uniprot.org/citations/10499802" target="\_blank">10499802</a>). Both physically blocks E2Fs transactivating domain and recruits chromatin- modifying enzymes that actively repress transcription (PubMed:<a href="http://www.uniprot.org/citations/10499802" target="\_blank">10499802</a>). Cyclin and CDK-dependent phosphorylation of RB1 induces its dissociation from E2Fs, thereby activating transcription of E2F responsive genes and triggering entry into S phase (PubMed:<a

href="http://www.uniprot.org/citations/10499802" target="\_blank">10499802</a>). RB1 also promotes the G0-G1 transition upon phosphorylation and activation by CDK3/cyclin-C (PubMed:<a href="http://www.uniprot.org/citations/15084261" target="\_blank">15084261</a>). 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. Mediates transcriptional repression by SMARCA4/BRG1 by recruiting a histone deacetylase (HDAC) complex to the c-FOS promoter. In resting neurons, transcription of the c-FOS promoter is inhibited by BRG1- dependent recruitment of a phospho-RB1-HDAC1 repressor complex. Upon calcium influx, RB1 is dephosphorylated by calcineurin, which leads to release of the repressor complex (By similarity).

#### Cellular Location

Nucleus. Cytoplasm {ECO:0000250|UniProtKB:P13405}. Note=During keratinocyte differentiation, acetylation by KAT2B/PCAF is required for nuclear localization (PubMed:20940255). Localizes to the cytoplasm when hyperphosphorylated (By similarity). {ECO:0000250|UniProtKB:P13405, ECO:0000269|PubMed:20940255}

#### Tissue Location

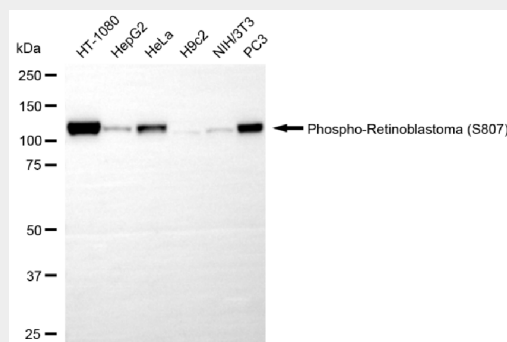
Expressed in the retina. Expressed in foreskin keratinocytes (at protein level) (PubMed:20940255)

### KD-Validated Anti-Phospho-Retinoblastoma (S807) Rabbit Monoclonal Antibody - Protocols

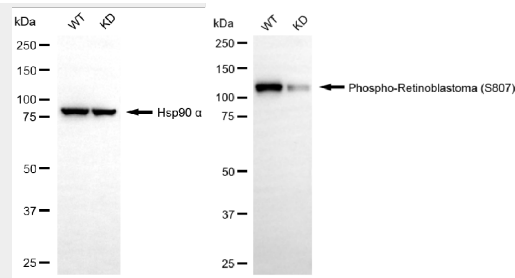
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### KD-Validated Anti-Phospho-Retinoblastoma (S807) Rabbit Monoclonal Antibody - Images

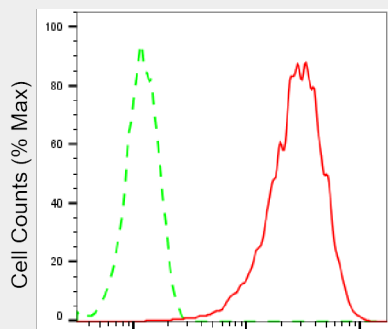


Western blotting analysis using anti-phospho-retinoblastoma (S807) antibody (Cat#AGI1377). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-phospho-retinoblastoma (S807) antibody (Cat#AGI1377, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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Western blotting analysis using anti-phospho-retinoblastoma (S807) antibody (Cat#AGI1377). Phospho-retinoblastoma (S807) 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 anti-phospho-retinoblastoma (S807) antibody (Cat#AGI1377, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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Phospho-Retinoblastoma (S807)-Alexa Fluor® 647

Flow cytometric analysis of Phospho-Retinoblastoma (S807) expression in HAP-1 cells using anti-Phospho-Retinoblastoma (S807) antibody (Cat#AGI1377, 1:2,000). Green, isotype control; red, Phospho-Retinoblastoma (S807).