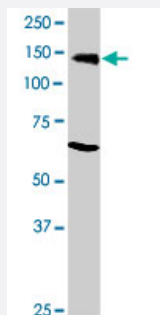


# RB1 (phospho S612) monoclonal antibody, clone 3C11

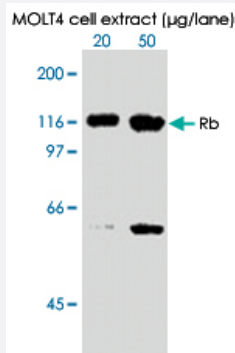
Catalog # MAB0003      Size 100 ug

## Applications



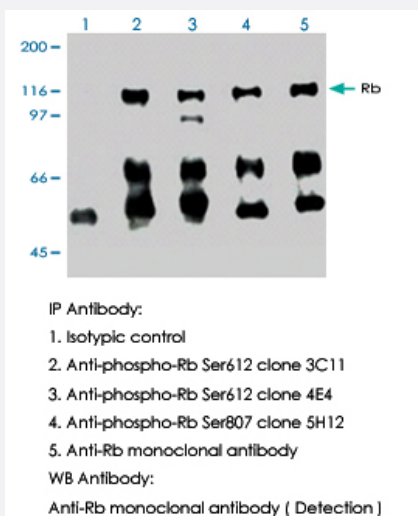
### Western Blot (Cell lysate)

RB1 (phospho S612) monoclonal antibody, clone 3C11 (Cat # MAB0003).  
Western blot analysis of pRb in HeLa.



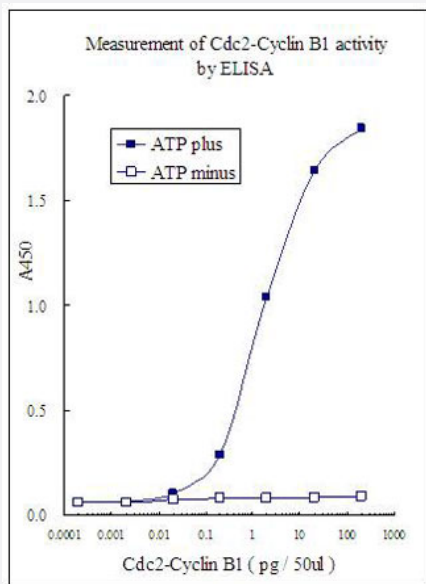
### Western Blot (Cell lysate)

Western blot analysis in extracts from MOLT 4 cell using RB1 (phospho S612) monoclonal antibody, clone 3C11 (Cat # MAB0003).



### Immunoprecipitation

IP-Western blotting in HL-60 cell lysate using RB1 (phospho S612) monoclonal antibody, clone 3C11 (Cat # MAB0003 ; Lane 2).



## Enzyme-linked Immunoabsorbent Assay

ELISA for measurement of recombinant Cdc2-CyclinB1 kinase activity using RB1 (phospho S612) monoclonal antibody, clone 3C11 (Cat # MAB0003).

## Specification

|                                |                                                                                                                                                         |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>     | Mouse monoclonal antibody raised against synthetic phosphopeptide of Rb.                                                                                |
| <b>Immunogen</b>               | Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding S612 of human Rb.                                                  |
| <b>Host</b>                    | Mouse                                                                                                                                                   |
| <b>Reactivity</b>              | Human                                                                                                                                                   |
| <b>Form</b>                    | Liquid                                                                                                                                                  |
| <b>Isotype</b>                 | IgG2a                                                                                                                                                   |
| <b>Quality Control Testing</b> | Phospho-Rb Ser612 Antibody detects endogenous Rb protein only when phosphorylated at serine612.                                                         |
| <b>Recommend Usage</b>         | Western Blot (1-2 ug/mL)<br>Immunoprecipitation (2-4 ug/mL)<br>ELISA (5-10 ug/mL)<br>The optimal working dilution should be determined by the end user. |
| <b>Storage Buffer</b>          | In 10 mM phosphate buffer, 150 mM NaCl, pH 7.5 (50% glycerol)                                                                                           |
| <b>Storage Instruction</b>     | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                                      |

## Applications

- Western Blot (Cell lysate)

RB1 (phospho S612) monoclonal antibody, clone 3C11 (Cat # MAB0003). Western blot analysis of pRb in HeLa.

[Protocol Download](#)

- Western Blot (Cell lysate)

Western blot analysis in extracts from MOLT 4 cell using RB1 (phospho S612) monoclonal antibody, clone 3C11 (Cat # MAB0003).

- Immunoprecipitation

IP-Western blotting in HL-60 cell lysate using RB1 (phospho S612) monoclonal antibody, clone 3C11 (Cat # MAB0003 ; Lane 2).

- Enzyme-linked Immunoabsorbent Assay

ELISA for measurement of recombinant Cdc2-CyclinB1 kinase activity using RB1 (phospho S612) monoclonal antibody, clone 3C11 (Cat # MAB0003).

## Gene Info — RB1

Entrez GeneID [5925](#)

GeneBank Accession# [NM\\_000321](#)

Protein Accession# [NP\\_000312](#)

Gene Name RB1

Gene Alias OSRC, RB, p105-Rb, pRb, pp110

Gene Description retinoblastoma 1

Omim ID [109800](#) [180200](#) [259500](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** 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]

**Other Designations** OTTHUMP00000018397|retinoblastoma susceptibility protein|retinoblastoma-associated protein

## Pathway

- [Bladder cancer](#)
- [Cell cycle](#)
- [Chronic myeloid leukemia](#)
- [Glioma](#)
- [Melanoma](#)
- [Non-small cell lung cancer](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Small cell lung cancer](#)

## Disease

- [Adenocarcinoma](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Chromosomal Instability](#)
- [Chromosome Aberrations](#)
- [Chromosome Deletion](#)
- [Colorectal Neoplasms](#)
- [Cystadenocarcinoma](#)
- [Disease Progression](#)
- [Esophageal Neoplasms](#)

- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Neoplasm Invasiveness](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Retinal Neoplasms](#)
- [Retinoblastoma](#)
- [Tobacco Use Disorder](#)