

# RB1 monoclonal antibody, clone 4H6

Catalog # MAB2164      Size 100 ug

## Specification

|                                |                                                                             |
|--------------------------------|-----------------------------------------------------------------------------|
| <b>Product Description</b>     | Mouse monoclonal antibody raised against partial recombinant RB1.           |
| <b>Immunogen</b>               | Recombinant protein corresponding to amino acids 121-140 of RB1.            |
| <b>Host</b>                    | Mouse                                                                       |
| <b>Reactivity</b>              | Human                                                                       |
| <b>Specificity</b>             | This antibody recognizes an epitope within aa 121-140 of RB1.               |
| <b>Form</b>                    | Liquid                                                                      |
| <b>Isotype</b>                 | IgG1                                                                        |
| <b>Quality Control Testing</b> | Antibody Reactive Against Recombinant Protein.                              |
| <b>Recommend Usage</b>         | The optimal working dilution should be determined by the end user.          |
| <b>Storage Buffer</b>          | In PBS, pH 7.4                                                              |
| <b>Storage Instruction</b>     | Store at -20°C to -80°C.<br>Aliquot to avoid repeated freezing and thawing. |

## Applications

- Western Blot
- Immunohistochemistry
- Immunoprecipitation
- Enzyme-linked Immunoabsorbent Assay

## Gene Info — RB1

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">5925</a>                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Gene Name          | RB1                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Gene Alias         | OSRC, RB, p105-Rb, pRb, pp110                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Gene Description   | retinoblastoma 1                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Omim ID            | <a href="#">109800</a> <a href="#">180200</a> <a href="#">259500</a>                                                                                                                                                                                                                                                                                                                                                                                               |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 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                                                                                                                                                                                                                                                                                                                                                                         |

## Publication Reference

- [Retinoblastoma protein monoclonal antibodies with novel characteristics.](#)

S F Wen, M Nodelman, K Nared-Hood, J Duncan, J Geradts, H M Shepard.

Journal of Immunological Methods 1994 Mar; 169(2):231.

Application: ELISA, Flow Cyt, IHC-P, IP, WB-Ce, Human, Mouse, A-549, H146, H209, H596, HeLa, Human bladder carcinoma, Human prostatic adenocarcinoma, SK-OV-3 cells, Recombinant proteins

## 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](#)