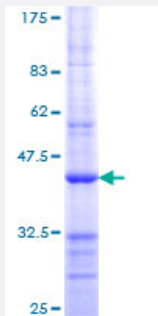


# RB1 (Human) Recombinant Protein (Q01)

Catalog # H00005925-Q01

Size 25 ug, 10 ug

## Applications



## Specification

|                                      |                                                                                                           |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>           | Human RB1 partial ORF ( AAH40540, 371 a.a. - 470 a.a.) recombinant protein with GST-tag at N-terminal.    |
| <b>Sequence</b>                      | PHTPVRTVMNTIQQLMMILNSASDQPSLENISYFNNCTVNPKE SILKRVKDIGYIFKEKFAKAVGQG<br>CVEIGSQRYKLGVRLLYRVMESMLKSEEERLSI |
| <b>Host</b>                          | Wheat Germ (in vitro)                                                                                     |
| <b>Theoretical MW (kDa)</b>          | 36.74                                                                                                     |
| <b>Interspecies Antigen Sequence</b> | Mouse (93)                                                                                                |
| <b>Preparation Method</b>            | <a href="#">in vitro wheat germ expression system</a>                                                     |
| <b>Purification</b>                  | Glutathione Sepharose 4 Fast Flow                                                                         |
| <b>Quality Control Testing</b>       | 12.5% SDS-PAGE Stained with Coomassie Blue.                                                               |
| <b>Storage Buffer</b>                | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                  |
| <b>Storage Instruction</b>           | Store at -80°C. Aliquot to avoid repeated freezing and thawing.                                           |
| <b>Note</b>                          | Best use within three months from the date of receipt of this protein.                                    |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — RB1

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">5925</a>                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| GeneBank Accession# | <a href="#">BC040540</a>                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Protein Accession#  | <a href="#">AAH40540</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                                                                                                                                                                                                                                                                                                                                                                         |

## 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](#)