

## Recombinant Human RB1, GST-tagged

Cat. No. RB1-570H Lot. No. (See product label)

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Recombinant Human RB1, fused with N-terminal GST tag, was expressed in an E. coli expression system.  |
| <b>Species</b>          | Human   |
| <b>Source</b>           | E.coli  |
| <b>Description</b>      | 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. |
| <b>Form</b>             | 40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 18 mM Glutathione, 10% glycerol, and 3 mM DTT.   |
| <b>Molecular Mass</b>   | 43.5 kDa  |
| <b>Purity</b>           | ≥ 47%   |
| <b>Applications</b>     | Kinase substrate for the kinase assay; western blot   |
| <b>Storage</b>          | >6 months at -80°C  |

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## GENE INFORMATION

|                            |  |
|----------------------------|--|
| <b>Gene Name</b>           | RB1 retinoblastoma 1 [ Homo sapiens ]  |
| <b>Official Symbol</b>     | RB1  |
| <b>Synonyms</b>            | RB1; retinoblastoma 1; RB; pRb; OSRC; pp110; p105-Rb; RB1; osteosarcoma; OTTHUMP00000018397; Rb; retinoblastoma susceptibility protein; retinoblastoma-associated protein  |
| <b>Gene ID</b>             | 5925   |
| <b>mRNA Refseq</b>         | NM_000321  |
| <b>Protein Refseq</b>      | NP_000312  |
| <b>MIM</b>                 | 180200   |
| <b>UniProt ID</b>          | P06400   |
| <b>Chromosome Location</b> | 13q14.2  |
| <b>Pathway</b>             | Bladder cancer; Cell cycle; Chronic myeloid leukemia; Glioma; Melanoma; Non-small cell lung cancer; Pancreatic cancer;   |
| <b>Function</b>            | androgen receptor binding; kinase binding; phosphoprotein binding; transcription coactivator activity; transcription factor activity; transcription factor binding; transcription repressor activity; ubiquitin protein ligase binding |

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