

## Recombinant Human RB1, GST-tagged

**Cat. No.** RB1-701H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human RB1 (48-378) was expressed in E. coli cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	48-378 a.a.
<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>Molecular Mass</b>	~62 kDa
<b>Purity</b>	>95%
<b>Formulation</b>	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
<b>Concentration</b>	0.2 ug/ul

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<b>Applications</b>	WB
<b>Storage</b>	Store product at -70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
<b>OfficialSymbol</b>	RB1

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">RB1 retinoblastoma 1 [ Homo sapiens ]</a>
<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>	<a href="#">5925</a>
<b>mRNA Refseq</b>	<a href="#">NM_000321</a>
<b>Protein Refseq</b>	<a href="#">NP_000312</a>
<b>MIM</b>	<a href="#">180200</a>
<b>UniProt ID</b>	<a href="#">P06400</a>
<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; Pathways in cancer; Prostate cancer; Small cell

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lung cancer; Cell Cycle, Mitotic; DNA Replication

**Function**

androgen receptor binding; kinase binding; phosphoprotein binding; transcription coactivator activity; transcription factor activity; transcription factor binding; transcription repressor activity; ubiquitin protein ligase binding

**PDB rendering  
based on 1ad6.**



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