Recombinant Human RB1, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant Human RB1 (48-378) was expressed in E. coli cells using an N-terminal GST tag.
Species	Human
Source	E.coli
ProteinLength	48-378 a.a.
Description	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.
Molecular Mass	~62 kDa
Purity	>95%
Formulation	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.
Concentration	0.2 ug/ul

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Applications	WB
Storage	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.
OfficialSymbol	RB1

GENE INFORMATION

Gene Name	RB1 retinoblastoma 1 [Homo sapiens]
Synonyms	RB1; retinoblastoma 1; RB; pRb; OSRC; pp110; p105-Rb; RB1; osteosarcoma; OTTHUMP00000018397; Rb; retinoblastoma suspectibility protein; retinoblastoma-associated protein
Gene ID	5925
mRNA Refseq	NM_000321
Protein Refseq	NP_000312
MIM	180200
UniProt ID	P06400
Chromosome Location	13q14.2
Pathway	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 basedon 1ad6.	

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