

## Rb Protein

Recombinant protein expressed in *E. coli* cells

**Catalog # R05-55G**

Lot # D278-1

### Product Description

Recombinant human Rb (773-928) was expressed in *E. coli* cells using an N-terminal GST tag. The gene accession number is [NM\\_000321](#).

### Gene Aliases

RB1, OSRC

### Formulation

Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.

### Storage and Stability

Store product at  $-70^{\circ}\text{C}$ . 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.

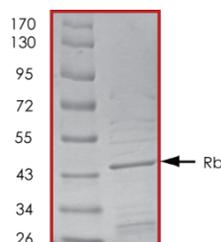
### Scientific Background

Rb is the retinoblastoma gene product and was the first tumor suppressor cloned. Rb is a negative regulator of the cell cycle through its ability to bind the transcription factor E2F and repress transcription of genes required for S phase (1). Rb can bind to MDM2 and this overcomes both the antiapoptotic function of MDM2 and the MDM2-dependent degradation of p53. Rb associates with the Polycomb group (PcG) proteins to form a repressor complex that blocks entry of cells into mitosis (2). Rb co-localizes with nuclear PcG complexes and is important for association of PcG complexes with nuclear targets.

### References

1. Hanahan, D. et al: The hallmarks of cancer. *Cell* 100: 57-70, 2000.
2. Dahiya, A. et al: Linking the Rb and Polycomb pathways. *Molec. Cell* 8: 557-568, 2001.

### Purity



The purity was determined to be **>85%** by densitometry.  
Approx. MW **44 kDa**.

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Catalog Number	R05-55G
Specific Lot Number	D278-1
Purity	>85%
Concentration	0.2 $\mu\text{g}/\mu\text{l}$
Stability	1 yr at $-70^{\circ}\text{C}$ from date of shipment
Storage & Shipping	Store product at $-70^{\circ}\text{C}$ . 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. Product shipped on dry ice.

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