A Reliable Research Partner in Life Science and Medicine

## **Recombinant Rat RB1 protein (His tag)**

Catalog No. PDER100076

*Note:* Centrifuge before opening to ensure complete recovery of vial contents.

### **Description**

Synonyms OSRC;osteosarcoma;p105-Rb;pp110;pRb;RB;RB1;retinoblastoma 1;retinoblastoma

suspectibility protein;retinoblastoma-associated protein

**Species** Rat **Expression Host** E.coli

Sequence Arg 229-Met 450

AccessionP33568Calculated Molecular Weight24.3 kDaObserved molecular weight32 kDaTagN-His

**Bioactivity** Not validated for activity

### **Properties**

**Purity** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin** Please contact us for more information.

**Storage** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation** Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

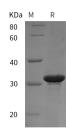
protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

**Reconstitution** It is recommended that sterile water be added to the vial to prepare a stock solution

of 0.5 mg/mL. Concentration is measured by UV-Vis

### Data



> 95 % as determined by reducing SDS-PAGE.

# Background

#### For Research Use Only

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#### **Elabscience Bionovation Inc.**



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Retinoblastoma 1 protein (RB-1; also retinoblastoma-associated protein, pp110, and p105-Rb) is a 110 kDa tumor suppressor gene and member of the retinoblastoma protein family. Rat RB-1 is 920 amino acids in length. The protein contains a Pocket domain (aa 366-763), which is comprised of two other domains, domain A (aa 366-572) and domain B (aa 632-763), and a "spacer" (aa 573-631). The Pocket domain binds to threonine-phosphorylated domain C (aa 763-920), which thereby prevents interaction with heterodimeric E2F/DP transcription factor complexes. RB-1 is expressed in the retina. The underphosphorylated, active form of RB-1 interacts with E2F1 and represses its transcription activity, leading to cell cycle arrest. Defects in RB-1 lead to the childhood cancer retinoblastoma.

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