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Datasheet for ABIN6700479

**Retinoblastoma 1 Protein (RB1) (GST tag)**

## Overview

Quantity:	20 µg
Target:	Retinoblastoma 1 (RB1)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Retinoblastoma 1 protein is labelled with GST tag.
Application:	Western Blotting (WB)

## Product Details

Purpose:	Rb recombinant protein-GST fusion protein
Purification:	Recombinant human Rb (48 - 378) was expressed in E. coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >90% by densitometry.
Purity:	>90%

## Target Details

Target:	Retinoblastoma 1 (RB1)
Alternative Name:	RB1 ( <a href="#">RB1 Products</a> )
Background:	Synonyms: RB1, OSRC, pRb, pp110, p105-Rb, Retinoblastoma 1 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

## Target Details

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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 colocalizes with nuclear PcG complexes and is important for association of PcG complexes with nuclear targets. Rb Protein is ideal for investigators involved in Signaling Reagents, Protein Substrates, Cancer, Cell Cycle, and Neurobiology research.

NCBI Accession: [NM\\_000321](#)

Pathways: [Cell Division Cycle](#), [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Mitotic G1-G1/S Phases](#), [DNA Replication](#), [Maintenance of Protein Location](#), [Synthesis of DNA](#), [Autophagy](#)

## Application Details

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Application Notes: Western\_Blot\_Dilution: User Optimized  
Other: Kinase Assay-User Optimized  
Application\_Note: Rb Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~62 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 0.2 µg/µL

Buffer: Rb Protein is stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.

Storage: -80 °C

Storage Comment: Store product at -70°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.

Expiry Date: 12 months