Recombinant Human RB1, His-tagged

Cat. No. RB1-31044TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 792-928 of Human Rb with 6X His tag; 146 amino acids, 16.5 kDa
Species	Human
Source	E.coli
ProteinLength	792-928 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.
Conjugation	HIS
Tissue specificity	Expressed in the retina.
Form	Lyophilised:Reconstitute in sterile 18MO-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.
Purity	>95% by SDS-PAGE

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Storage buffer	Preservative: NoneConstituents: 20mM PBS, pH 7.4
Storage	Store at -20°C or lower.Aliquot to avoid repeated freezing and thawing.
Sequences of amino acids	MASFPSSPLRIPGGNIYISPLKSPYKISEGLPTPTKMTPR SRILVSIGESFGTSEKFQKI NQMVCNSDRVLKRSAEGSNP PKPLKKLRFDIEGSDEADGSKHLPGESKFQQKLAE MTSTR TRMQKQKMNDSMDTSNKEEKHHHHHH
Sequence Similarities	Belongs to the retinoblastoma protein (RB) family.

GENE INFORMATION

Gene Name	RB1 retinoblastoma 1 [Homo sapiens]
Official Symbol	RB1
Synonyms	RB1; retinoblastoma 1; OSRC, osteosarcoma; retinoblastoma-associated protein; RB;
Gene ID	5925
mRNA Refseq	NM_000321
Protein Refseq	NP_000312
MIM	614041
Uniprot ID	P06400
Chromosome Location	13q14.2

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Pathway	Adipogenesis, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem;
Function	DNA binding; RNA polymerase II activating transcription factor binding; androgen receptor binding; core promoter binding; kinase activity;

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