RB1 Blocking Peptide

PRODUCT OVERVIEW

Product Name	RB1, Blocking Peptide
Full Product Name	RB1 Peptide
Product Gene Name	RB1 blocking peptide
Product Synonym Gene Name	RB; pRb; OSRC; pp110; p105-Rb
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	RB1 peptide (MBS3226410) is used for blocking the activity of RB1 antibody (MBS3201388)
Molecular Weight	106kDa
OMIM	109800
Product Categories/Family for RB1 blocking peptide	Peptide
Applications Tested/Suitable for RB1 blocking peptide	Western Blot (WB)
Related Product Information for RB1 blocking peptide	This is a synthetic peptide designed for use in combination with anti-RB1 antibody made Target Description: Retinoblastoma (RB) is an embryonic malignant neoplasm of retinal origin. It almost always presents in early childhood and is often bilateral. Spontaneous regression ('cure') occurs in some cases.
Other Notes	Small volumes of RB1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RB1 purchase	MBS3226410 is a blocking peptide targeting RB1. Also known as RB1 Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RB1. It may not necessarily be applicable to this product.

NCBI GI #	108773787
NCBI GeneID	5925
NCBI Accession #	NP_000312
UniProt Primary Accession #	P06400
UniProt Related Accession #	P06400
GenBank Nucleotide #	NM_000321
NCBI Official Full Name	retinoblastoma-associated protein
NCBI Official Synonym Full Names	RB transcriptional corepressor 1
NCBI Official Symbol	RB1
NCBI Official Synonym Symbols	RB; pRb; OSRC; pp110; p105-Rb; PPP1R130

UniProt Protein Name	Retinoblastoma-associated protein
UniProt Synonym Protein Names	p105-Rb; pRb; Rb; pp110
Protein Family	Retinoblastoma-associated protein
UniProt Gene Name	RB1
UniProt Synonym Gene Names	Rb
UniProt Entry Name	RB_HUMAN
NCBI Protein Information	retinoblastoma-associated protein
NCBI Summary for RB1	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. [provided by RefSeq, Jul 2008]
UniProt Comments for RB1	Rb: retinoblastoma tumor suppressor protein regulates cell proliferation by controlling progression through the G1-phase restriction point. Has three distinct binding domains and interacts with regulatory proteins including the E2F family of transcription factors, c-Abl tyrosine kinase and proteins with a conserved LXCXE motif. Cell cycle-dependent phosphorylation by Cdks inhibits Rb target binding, thus allowing cell cycle progression. Recruits and targets histone methyltransferase suv39h1 leading to epigenetic transcriptional repression. Protein type: Transcription, coactivator/corepressor; Oncoprotein; Nuclear receptor co-regulator; Tumor suppressor Chromosomal Location of Human Ortholog: 13q14.2 Cellular Component: nucleoplasm; SWI/SNF complex; PML body; Rb-E2F complex; spindle; chromatin; nucleus Molecular Function: identical protein binding; protein binding; androgen receptor binding; DNA binding; ubiquitin protein ligase binding; transcription coactivator activity; phosphoprotein binding; kinase binding; transcription factor binding; transcription factor activity Biological Process: sister chromatid biorientation; viral reproduction; positive regulation of transcription, DNA-dependent; negative regulation of transcription from RNA polymerase II promoter, mitotic; regulation of mitotic cell cycle; neuron maturation; positive regulation of macrophage differentiation; cell cycle arrest; neurite development; negative regulation of epithelial cell proliferation; transcription, DNA-dependent; mitotic cell cycle checkpoint; negative regulation of transcription factor activity; regulation of lipid kinase activity; enucleate erythrocyte differentiation; G1/S-specific transcription in mitotic cell cycle; chromatin remodeling; myoblast differentiation; neuron apoptosis; maintenance of mitotic sister chromatid cohesion; gut development; cell division; neuron morphogenesis during differentiation; negative regulation of smoothened signaling pathway; androgen receptor signaling pathway; Ras protein signal transduction; positive regulation of mitotic metaphase/anaphase transition; negative regulation of protein kinase activity; striated muscle cell differentiation; positive regulation of transcription from RNA polymerase II promoter; mitotic cell cycle; negative regulation of transcription, DNA-dependent; cell cycle checkpoint; G1/S transition of mitotic cell cycle Disease: Bladder Cancer; Osteogenic Sarcoma; Small Cell Cancer Of The Lung; Retinoblastoma
Research Articles on RB1	**1.** Concurrent mutations, in genes such as CDKN2B or RB1, were associated with worse clinical outcome in lung adenocarcinoma patients with EGFR active mutations.
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