Phospho-Retinoblastoma (Thr252) Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	Retinoblastoma (RB1), Blocking Peptide
Full Product Name	Phospho-Retinoblastoma (Thr252) Blocking Peptide
Product Gene Name	RB1 blocking peptide
Product Synonym Names	Exon 17 tumor GOS561 substitution mutation causes premature stop; GOS563 exon 17 substitution mutation causes premature stop; OSRC; Osteosarcoma; p105-Rb; P105RB; PP105; pp110; PPP1R130; pRb; Prepro retinoblastoma associated protein; Protein phosphatase 1 regulatory subunit 130; Rb; RB transcriptional corepressor 1; RB_HUMAN; RB1; RB1 gene; Retinoblastoma 1; Retinoblastoma suspectibility protein; Retinoblastoma-associated protein
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	Retinoblastoma (Thr252) peptide (MBS9619087) is used for blocking the activity of Retinoblastoma (Thr252) antibody (MBS9614125)
Molecular Weight	106,159 Da
Chromosome Location	Chromosome: 13; NC_000013.10 (48877883..49056026). Location: 13q14.2
OMIM	109800
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for RB1 blocking peptide	Blocking/Control
Related Product Information for RB1 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
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	MBS9619087 is a blocking peptide targeting RB1. Also known as Phospho-Retinoblastoma (Thr252) Blocking 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_000312.2
UniProt Primary Accession #	P06400
UniProt Secondary Accession #	P78499; Q5VW46; Q8IZL4; A8K5E3
UniProt Related Accession #	P06400
GenBank Nucleotide #	NM_000321.2
NCBI Official Full Name	retinoblastoma-associated protein
NCBI Official Synonym Full Names	retinoblastoma 1
NCBI Official Symbol	RB1
NCBI Official Synonym Symbols	RB; pRb; OSRC; pp110; p105-Rb
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; retinoblastoma suspectibility 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.** Silencing of RB1 but not RB2/P130 decreases proliferative activity and impairs the differentiation potential of human mesenchymal stem cells.
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