RB1 (Ps807) Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	RB1, Blocking Peptide
Full Product Name	RB1 (pS807) Blocking Peptide
Product Gene Name	RB1 blocking peptide
Product Synonym Names	Retinoblastoma-associated protein; p105-Rb; pRb; Rb; pp110
Host	Synthetic
Species Reactivity	Human, Mouse, Rat, Monkey
Form/Format	Lyophilized Powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	RB1 peptide (MBS8243298) is used for blocking the activity of RB1 antibody (MBS8243046)
Molecular Weight	106,159 Da
OMIM	109800
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Applications Tested/Suitable for RB1 blocking peptide	Blocking (BL)
Application Notes for RB1 blocking peptide	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Related Product Information for RB1 blocking peptide	MBS8243298 is a blocking peptide targeting RB1. Also known as RB1 (pS807) Blocking Peptide. Reactive in Human, Mouse, Rat, Monkey. Host: Synthetic. The peptide is used to block Anti-RB1 reactivity.
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.

ADDITIONAL DETAILS

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

NCBI GI #	132164
NCBI GeneID	5925
NCBI Accession #	P06400.2
UniProt Primary Accession #	P06400
UniProt Secondary Accession #	P78499; Q5VW46; Q8IZL4; A8K5E3
UniProt Related Accession #	P06400
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; 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: Nuclear receptor co-regulator; Tumor suppressor; Transcription, coactivator/corepressor; Oncoprotein Chromosomal Location of Human Ortholog: 13q14.2 Cellular Component: chromatin; nucleoplasm; nucleus; PML body; Rb-E2F complex; spindle; SWI/SNF complex Molecular Function: androgen receptor binding; DNA binding; identical protein binding; kinase binding; phosphoprotein binding; protein binding; transcription coactivator activity; transcription factor activity; transcription factor binding; ubiquitin protein ligase binding Biological Process: androgen receptor signaling pathway; cell cycle arrest; cell cycle checkpoint; cell division; chromatin remodeling; enucleate erythrocyte differentiation; G1/S transition of mitotic cell cycle; G1/S-specific transcription in mitotic cell cycle; gut development; maintenance of mitotic sister chromatid cohesion; mitotic cell cycle; mitotic cell cycle checkpoint; myoblast differentiation; negative regulation of epithelial cell proliferation; negative regulation of protein kinase activity; negative regulation of smoothened signaling pathway; negative regulation of transcription factor activity; negative regulation of transcription from RNA polymerase II promoter, mitotic; negative regulation of transcription, DNA-dependent; neurite development; neuron apoptosis; neuron maturation; neuron morphogenesis during differentiation; positive regulation of macrophage differentiation; positive regulation of mitotic metaphase/anaphase transition; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription, DNA-dependent; Ras protein signal transduction; regulation of lipid kinase activity; regulation of mitotic cell cycle; sister chromatid biorientation; striated muscle cell differentiation; transcription, DNA-dependent; viral reproduction Disease: Bladder Cancer; Osteogenic Sarcoma; Retinoblastoma; Small Cell Cancer Of The Lung
Research Articles on RB1	**1.** these results demonstrate complex links between different signaling cascades in stressed hMESC, implicating ERK, p38 and JNK in regulation of the premature senescence via p53/p21/Rb pathway.
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