P107 (C17) Blocking Peptide – Synthetic Peptide

PRODUCT OVERVIEW

Product Name	p107, Peptide
Full Product Name	p107 (C17) Blocking Peptide
Product Gene Name	p107 peptide
Concentration	0.100 mg/0.5 ml (lot specific)
Preparation and Storage	Store this product at 4 degree C, do not freeze. The product is stable for one year from the date of shipment.
Antibody/Peptide Pairs	p107 peptide (MBS443044) is used for blocking the activity of p107 antibody (MBS440044)
Molecular Weight	114,688 Da
OMIM	116957
Product Categories/Family for p107 peptide	Controls
Related Product Information for p107 peptide	MBS443044 is a peptide targeting p107. Also known as p107 (C17) Blocking Peptide.
Other Notes	Small volumes of p107 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 p107. It may not necessarily be applicable to this product.

NCBI GI #	292374
NCBI GeneID	5933
NCBI Accession #	AAA02489.1
UniProt Primary Accession #	P28749
UniProt Secondary Accession #	Q4VXA0; Q8N5K6; Q9H1L5; Q9H1M1; A8K2W5
UniProt Related Accession #	P28749
NCBI Official Full Name	p107
NCBI Official Synonym Full Names	retinoblastoma-like 1
NCBI Official Symbol	RBL1
NCBI Official Synonym Symbols	PRB1; p107; CP107
UniProt Protein Name	Retinoblastoma-like protein 1
UniProt Synonym Protein Names	107 kDa retinoblastoma-associated protein; p107; pRb1
Protein Family	Mitosis inhibitor protein kinase
UniProt Gene Name	RBL1
UniProt Synonym Gene Names	p107
UniProt Entry Name	RBL1_HUMAN

NCBI Protein Information	retinoblastoma-like protein 1; 107 kDa retinoblastoma-associated protein; cellular protein 107; retinoblastoma-like 1 (p107)
NCBI Summary for p107	The protein encoded by this gene is similar in sequence and possibly function to the product of the retinoblastoma 1 (RB1) gene. The RB1 gene product is a tumor suppressor protein that appears to be involved in cell cycle regulation, as it is phosphorylated in the S to M phase transition and is dephosphorylated in the G1 phase of the cell cycle. Both the RB1 protein and the product of this gene can form a complex with adenovirus E1A protein and SV40 large T-antigen, with the SV40 large T-antigen binding only to the unphosphorylated form of each protein. In addition, both proteins can inhibit the transcription of cell cycle genes containing E2F binding sites in their promoters. Due to the sequence and biochemical similarities with the RB1 protein, it is thought that the protein encoded by this gene may also be a tumor suppressor. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for p107	Rb-like 1: Key regulator of entry into cell division. Directly involved in heterochromatin formation by maintaining overall chromatin structure and, in particular, that of constitutive heterochromatin by stabilizing histone methylation. Recruits and targets histone methyltransferases SUV420H1 and SUV420H2, leading to epigenetic transcriptional repression. Controls histone H4 'Lys-20' trimethylation. Probably acts as a transcription repressor by recruiting chromatin-modifying enzymes to promoters. Potent inhibitor of E2F-mediated trans-activation. Forms a complex with adenovirus E1A and with SV40 large T antigen. May bind and modulate functionally certain cellular proteins with which T and E1A compete for pocket binding. May act as a tumor suppressor. Belongs to the retinoblastoma protein (RB) family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription, coactivator/corepressor; Tumor suppressor Chromosomal Location of Human Ortholog: 20q11.2 Cellular Component: nucleoplasm; transcription factor complex; nucleus Molecular Function: protein binding; transcription factor binding Biological Process: transcription initiation from RNA polymerase II promoter; transcription, DNA-dependent; viral reproduction; regulation of cell cycle; transforming growth factor beta receptor signaling pathway; positive regulation of transcription from RNA polymerase II promoter; gene expression; chromatin modification; mitotic cell cycle; negative regulation of transcription from RNA polymerase II promoter; regulation of lipid kinase activity
Research Articles on p107	**1.** Sequence analysis of the RB1 gene detected a novel mutation in bilateral retinoblastoma.
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