SNW1 Blocking Peptide (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	SNW1, Blocking Peptide
Full Product Name	SNW1 Blocking Peptide (C-Term)
Product Gene Name	SNW1 blocking peptide
Product Synonym Gene Name	SKIIP; SKIP
Product Synonym Names	SNW domain-containing protein 1; Nuclear protein SkiP; Nuclear receptor coactivator NCoA-62; Ski-interacting protein; SNW1; SKIIP; SKIP
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 1 mg/ml.
Specificity	The synthetic peptide sequence is selected from aa 484-497 of HUMAN SNW1
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	SNW1 peptide (MBS9230444) is used for blocking the activity of SNW1 antibody (MBS9215945)
Molecular Weight	61,494 Da
OMIM	603055
Cellular Location	Nucleus.
Related Product Information for SNW1 blocking peptide	Involved in transcriptional regulation. Modulates TGF- beta-mediated transcription via association with SMAD proteins, MYOD1-mediated transcription via association with PABPN1, RB1- mediated transcriptional repression, and retinoid-X receptor (RXR)- and vitamin D receptor (VDR)-dependent gene transcription in a cell line-specific manner probably involving coactivators NCOA1 and GRIP1. Is involved in NOTCH1-mediated transcriptional activation. Binds to multimerized forms of Notch intracellular domain (NICD) and is proposed to recruit transcriptional coactivators such as MAML1 to form an intermediate preactivation complex which associates with DNA-bound CBF-1/RBPJ to form a transcriptional activation complex by releasing SNW1 and redundant NOTCH1 NICD. Proposed to be involved in transcriptional activation by EBV EBNA2 of CBF-1/RBPJ-repressed promoters. Is recruited by HIV-1 Tat to Tat:P-TEFb:TAR RNA complexes and is involved in Tat transcription by recruitment of MYC, MEN1 and TRRAP to the HIV promoter. Functions as a splicing factor in pre-mRNA splicing. Is required in the specific splicing of CDKN1A pre-mRNA; the function probbaly involves the recruitment of U2AF2 to the mRNA. Is proposed to recruit PPIL1 to the spliceosome. May be involved in cyclin-D1/CCND1 mRNA stability through the SNARP complex which associates with both the 3'end of the CCND1 gene and its mRNA.
Other Notes	Small volumes of SNW1 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 SNW1 purchase	MBS9230444 is a blocking peptide targeting SNW1. Also known as SNW1 Blocking Peptide (C-Term).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SNW1. It may not necessarily be applicable to this product.

NCBI GI #	2500813
NCBI GeneID	22938
NCBI Accession #	Q13573.1
UniProt Primary Accession #	Q13573
UniProt Secondary Accession #	Q13483; Q32N03; Q5D0D6; A8K8A9

UniProt Related Accession #	Q13573
NCBI Official Full Name	SNW domain-containing protein 1
NCBI Official Synonym Full Names	SNW domain containing 1
NCBI Official Symbol	SNW1
NCBI Official Synonym Symbols	Bx42; SKIP; Prp45; SKIIP; PRPF45; NCOA-62
UniProt Protein Name	SNW domain-containing protein 1
UniProt Synonym Protein Names	Nuclear protein SkiP; Nuclear receptor coactivator NCoA-62; Ski-interacting protein
Protein Family	SNW domain-containing protein
UniProt Gene Name	SNW1
UniProt Synonym Gene Names	SKIIP; SKIP
UniProt Entry Name	SNW1_HUMAN
NCBI Protein Information	SNW domain-containing protein 1
NCBI Summary for SNW1	This gene, a member of the SNW gene family, encodes a coactivator that enhances transcription from some Pol II promoters. This coactivator can bind to the ligand-binding domain of the vitamin D receptor and to retinoid receptors to enhance vitamin D-, retinoic acid-, estrogen-, and glucocorticoid-mediated gene expression. It can also function as a splicing factor by interacting with poly(A)-binding protein 2 to directly control the expression of muscle-specific genes at the transcriptional level. Finally, the protein may be involved in oncogenesis since it interacts with a region of SKI oncoproteins that is required for transforming activity. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]
UniProt Comments for SNW1	Skip: Involved in vitamin D-mediated transcription. Can function as a splicing factor in pre-mRNA splicing. Belongs to the SNW family. Protein type: Nuclear receptor co-regulator; Transcription, coactivator/corepressor; Spliceosome Chromosomal Location of Human Ortholog: 14q24.3 Cellular Component: nuclear matrix; nucleoplasm; nucleus; spliceosome; transcription elongation factor complex b Molecular Function: Notch binding; nuclear hormone receptor binding; protein binding; retinoic acid receptor binding; SMAD binding; transcription coactivator activity; transcription corepressor activity; vitamin D receptor binding Biological Process: DNA damage response, signal transduction by p53 class mediator resulting in induction of apoptosis; negative regulation of transcription from RNA polymerase II promoter; negative regulation of transcription, DNA-dependent; Notch signaling pathway; nuclear mRNA splicing, via spliceosome; positive regulation of histone H3-K4 methylation; positive regulation of neurogenesis; positive regulation of nuclear mRNA splicing, via spliceosome; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transforming growth factor beta receptor signaling pathway; regulation of retinoic acid receptor signaling pathway; regulation of transcription from RNA polymerase II promoter; retinoic acid receptor signaling pathway; transcription initiation from RNA polymerase II promoter
Research Articles on SNW1	**1.** Upon step 1 catalysis, Cwc25 contacts with the branch-site region, and enhanced crosslinks of Prp8 and Prp45 with nucleotides surrounding the branch-site were observed.
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