E2F1 Blocking Peptide

PRODUCT OVERVIEW

Product Name	E2F1, Blocking Peptide
Full Product Name	E2F1 Peptide
Product Gene Name	E2F1 blocking peptide
Product Synonym Names	E2F-1; RBAP1; RBBP3; RBP3
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	E2F1 peptide (MBS3249931) is used for blocking the activity of E2F1 antibody (MBS3200350)
Molecular Weight	46,920 Da
OMIM	189971
Partner Proteins	E2F2, E2F4, RBL2, BARD1, BIRC5, BRCA1, CBX5, CCDC76, CCNA1, CCNA2, CDC25A, CDC6, CDK1, CDKN2A, CEBPD, CEBPE, CHEK1, CSDA, E2F1, EAPP, FHL2, GAB2, GAS2L1, HIST1H2AG, HIST1H2BJ, HIST2H4A, JMY, MAD2L1, MAD2L1, MDM4, MFAP1, MLH1, MSH2, MSH2, MT1G, MYBL2, MYC, NCOA3, PPP1R13B, PPP1R13B, PRR11, RAD51, RAD54L, RB1, RB1, RB1, RB1, RB1, RB1, RBL1, RBL2, RECQL, TFDP1, TP53BP2, TP53BP2, TP53INP1, TTK, TYMS, UXT, ARID3A, ATM, ATR, BRCA1, BRD2, CCNA1, CCNA2, CDK1, CDK3, CDK7, CDKN2A, CEBPE, CHEK2, CREBBP, CTDP1, CUL1, DDB2, E2F6, GTF2H1, KAT5, MDM4, MNAT1, NCOA3, NCOA6, NDN, NFKB1, NPDC1, PARP1, PHB, PURA, RB1, SERTAD2, SKP2, SP1, SP2, SP3, SP4, TFDP1, TFDP2, TOPBP1, TP53, TP53BP1, TRRAP, ARID3A, BRD2, CCNA1, CCNA2, CDK2, CDK7, CDT1, CREBBP, CUL1, DNMT1, FHL2, GSK3B, GTF2H1, HDAC1, MDM4, MGA, MYBL2, NCOA6, NDN, NDNL2, NFKB1, NPDC1, Nfkb1, PHB, PKIB, PURA, RB1, RBBP4, RBL1, RING1, RNF144A, SKP2, SP1, SP2, SP3, SP4, SPIB, Sp1, TEAD3, TFDP1, TFDP2, TOPBP1, TP53BP1, TRRAP, UBC
Protein Size	437
Applications Tested/Suitable for E2F1 blocking peptide	Western Blot (WB)
Application Notes for E2F1 blocking peptide	This is a synthetic peptide designed for use in combination with anti-E2F1 antibody . It may block above mentioned antibody from binding to its target protein in western blot and/or immunohistochecmistry under proper experimental settings. There is no guarantee for its use in other applications.
Related Product Information for E2F1 blocking peptide	The protein encoded by E2F1 is a member of the E2F family of transcription factors. The E2F family plays a crucial role in the control of cell cycle and action of tumor suppressor proteins and is also a target of the transforming proteins of small DNA tumor viruses. This protein binds preferentially to retinoblastoma protein pRB in a cell-cycle dependent manner. It can mediate both cell proliferation and p53-dependent/independent apoptosis.
Product References and Citations for E2F1 blocking peptide	Unoki,M., et al., (2004) Oncogene 23 (46), 7601-7610
Other Notes	Small volumes of E2F1 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 E2F1 purchase	MBS3249931 is a blocking peptide targeting E2F1. Also known as E2F1 Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for E2F1. It may not necessarily be applicable to this product.

NCBI GI #	12669911
NCBI GeneID	1869
NCBI Accession #	NP_005216
NCBI Related Accession #	NM_005225
UniProt Primary Accession #	Q01094
UniProt Secondary Accession #	Q13143; Q92768
UniProt Related Accession #	Q01094
GenBank Nucleotide #	NM_005225
NCBI Official Full Name	transcription factor E2F1
NCBI Official Synonym Full Names	E2F transcription factor 1
NCBI Official Symbol	E2F1
NCBI Official Synonym Symbols	RBP3; E2F-1; RBAP1; RBBP3
UniProt Protein Name	Transcription factor E2F1
UniProt Synonym Protein Names	PBR3; Retinoblastoma-associated protein 1; RBAP-1; Retinoblastoma-binding protein 3; RBBP-3; pRB-binding protein E2F-1
Protein Family	Transcription factor
UniProt Gene Name	E2F1
UniProt Synonym Gene Names	RBBP3; E2F-1; RBAP-1; RBBP-3
UniProt Entry Name	E2F1_HUMAN
NCBI Protein Information	transcription factor E2F1; PBR3; PRB-binding protein E2F-1; RBAP-1; RBBP-3; retinoblastoma-associated protein 1; retinoblastoma-binding protein 3
UniProt Comments for E2F1	E2F1: a member of the E2F/DP family of transcription factors.The E2F family plays a crucial role in the control of cell cycle and action of tumor suppressor proteins and is also a target of the transforming proteins of small DNA tumor viruses. Binds DNA cooperatively with Dp transcription factors in the promoter region of a number of genes whose products are involved in cell cycle regulation or in DNA replication.The Dp-1/E2F complex functions in the control of cell-cycle progression from G1 to S phase. The E2F-1 complex binds specifically hypophosphorylated retinoblastoma protein RB1. During the cell cycle, RB1 becomes phosphorylated in mid-to-late G1 phase, detaches from the DRTF1/E2F complex, rendering E2F transcriptionally active. Phosphorylated by CDK2 and cyclin A-CDK2 in the S-phase. It can mediate both cell proliferation and p53-dependent apoptosis. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 20q11.2 Cellular Component: nucleoplasm; Rb-E2F complex; cytoplasm; nucleus Molecular Function: protein binding; DNA binding; sequence-specific DNA binding; transcription factor binding; transcription factor activity Biological Process: Notch signaling pathway; transcription, DNA-dependent; apoptosis; positive regulation of transcription, DNA-dependent; mRNA stabilization; negative regulation of transcription from RNA polymerase II promoter; anoikis; positive regulation of fibroblast proliferation; DNA damage response, signal transduction resulting in induction of apoptosis; regulation of transcription, DNA-dependent; DNA damage checkpoint; forebrain development; spermatogenesis; positive regulation of transcription from RNA polymerase II promoter; mitotic cell cycle; negative regulation of transcription, DNA-dependent; G1/S transition of mitotic cell cycle

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