E2F4 Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	E2F4, Blocking Peptide
Full Product Name	E2F4 Peptide - N-terminal region
Product Gene Name	E2F4 blocking peptide
Product Synonym Gene Name	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini; Catarrhini; Hominidae; Homo
Sequence	Synthetic peptide located within the following region: MAEAGPQAPP PPGTPSRHEK SLGLLTTKFV SLLQEAKDGV LDLKLAADTL
Species Reactivity	Human
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	E2F4 peptide (MBS3247693) is used for blocking the activity of E2F4 antibody (MBS3223046)
Molecular Weight	45 kDa
OMIM	600659
Product Categories/Family for E2F4 blocking peptide	Peptide
Related Product Information for E2F4 blocking peptide	This is a synthetic peptide designed for use in combination with anti- E2F4 Antibody, made Target Description: The protein encoded by this gene 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. The E2F proteins contain several evolutionally conserved domains found in most members of the family. These domains include a DNA binding domain, a dimerization domain which determines interaction with the differentiation regulated transcription factor proteins (DP), a transactivation domain enriched in acidic amino acids, and a tumor suppressor protein association domain which is embedded within the transactivation domain. This protein binds to all three of the tumor suppressor proteins pRB, p107 and p130, but with higher affinity to the last two. It plays an important role in the suppression of proliferation-associated genes, and its gene mutation and increased expression may be associated with human cancer.
Other Notes	Small volumes of E2F4 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 E2F4 purchase	MBS3247693 is a blocking peptide targeting E2F4. Also known as E2F4 Peptide - N-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for E2F4. It may not necessarily be applicable to this product.

NCBI GI #	12669915
NCBI GeneID	1874
NCBI Accession #	NP_001941.2
UniProt Primary Accession #	Q16254

UniProt Related Accession #	Q16254
GenBank Nucleotide #	NM_001950.3
NCBI Official Full Name	transcription factor E2F4
NCBI Official Synonym Full Names	E2F transcription factor 4
NCBI Official Symbol	E2F4
NCBI Official Synonym Symbols	E2F-4
UniProt Protein Name	Transcription factor E2F4
Protein Family	Transcription factor
UniProt Gene Name	E2F4
UniProt Synonym Gene Names	E2F-4
UniProt Entry Name	E2F4_HUMAN
NCBI Protein Information	transcription factor E2F4
NCBI Summary for E2F4	The protein encoded by this gene 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. The E2F proteins contain several evolutionally conserved domains found in most members of the family. These domains include a DNA binding domain, a dimerization domain which determines interaction with the differentiation regulated transcription factor proteins (DP), a transactivation domain enriched in acidic amino acids, and a tumor suppressor protein association domain which is embedded within the transactivation domain. This protein binds to all three of the tumor suppressor proteins pRB, p107 and p130, but with higher affinity to the last two. It plays an important role in the suppression of proliferation-associated genes, and its gene mutation and increased expression may be associated with human cancer. [provided by RefSeq, Jul 2008]
UniProt Comments for E2F4	E2F4: Transcription activator that binds DNA cooperatively with DP proteins through the E2 recognition site, 5'-TTTC[CG]CGC- 3' found in the promoter region of a number of genes whose products are involved in cell cycle regulation or in DNA replication. The DRTF1/E2F complex functions in the control of cell-cycle progression from G1 to S phase. E2F4 binds with high affinity to RBL1 and RBL2. In some instances can also bind RB1. Belongs to the E2F/DP family. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 16q22.1 Cellular Component: nucleoplasm; transcription factor complex Molecular Function: protein domain specific binding; protein binding; DNA binding; transcription factor activity; transcription factor binding Biological Process: G1/S-specific transcription in mitotic cell cycle; transcription initiation from RNA polymerase II promoter; organ morphogenesis; transcription, DNA-dependent; blood circulation; transforming growth factor beta receptor signaling pathway; epithelial cell development; gene expression; positive regulation of transcription from RNA polymerase II promoter; mitotic cell cycle; cell volume homeostasis; regulation of cell size; regulation of cell proliferation
Research Articles on E2F4	**1.** E2f4 forms apical cytoplasmic organizing centres for assembly and nucleation of deuterosomes. Using genetically altered mice and E2F4 mutant proteins we demonstrate that centriole amplification is crucially dependent on these organizing centres and that, without cytoplasmic E2f4, deuterosomes are not assembled, halting multiciliogenesis
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