10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TFDP1 Blocking Peptide (N-Term)

Synthetic peptide
Catalog # BP21890a

Specification

TFDP1 Blocking Peptide (N-Term) - Product Information

Primary Accession	Q14186
Other Accession	Q17QZ4, Q08639

TFDP1 Blocking Peptide (N-Term) - Additional Information

Gene ID 7027

Other Names
Transcription factor Dp-1, DRTF1-polypeptide 1, DRTF1, E2F dimerization partner 1, TFDP1, DP1

Target/Specificity
The synthetic peptide sequence is selected from aa 103-114 of HUMAN TFDP1

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TFDP1 Blocking Peptide (N-Term) - Protein Information

Name TFDP1

Synonyms DP1

Function
Can stimulate E2F-dependent transcription. Binds DNA cooperatively with E2F family members 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 (PubMed:7739537, PubMed:8405995). The E2F1:DP complex appears to mediate both cell proliferation and apoptosis. Blocks adipocyte differentiation by repressing CEBPA binding to its target gene promoters (PubMed:20176812).

Cellular Location
Nucleus {ECO:0000250|UniProtKB:Q08639}. Cytoplasm {ECO:0000250|UniProtKB:Q08639}. Note=Shuttles between the cytoplasm and nucleus and translocates into the nuclear compartment

upon heterodimerization with E2F1. {ECO:0000250|UniProtKB:Q08639}

Tissue Location
Highest levels in muscle. Also expressed in brain, placenta, liver and kidney. Lower levels in lung and pancreas. Not detected in heart

TFDP1 Blocking Peptide (N-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

TFDP1 Blocking Peptide (N-Term) - Images

TFDP1 Blocking Peptide (N-Term) - Background

Can stimulate E2F-dependent transcription. Binds DNA cooperatively with E2F family members 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 DP2/E2F complex functions in the control of cell-cycle progression from G1 to S phase. The E2F1/DP complex appears to mediate both cell proliferation and apoptosis.

TFDP1 Blocking Peptide (N-Term) - References

Helin K.,et al.Genes Dev. 7:1850-1861(1993).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Dunham A.,et al.Nature 428:522-528(2004).
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Bandara L.R.,et al.EMBO J. 13:3104-3114(1994).