



Human TAF1 peptide (DAG-P0738)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Initiation of transcription by RNA polymerase II requires the activities of more than 70 polypeptides. The protein that coordinates these activities is the basal transcription factor TFIID, which binds to the core promoter to position the polymerase properly, serves as the scaffold for assembly of the remainder of the transcription complex, and acts as a channel for regulatory signals. TFIID is composed of the TATA-binding protein (TBP) and a group of evolutionarily conserved proteins known as TBP-associated factors or TAFs. TAFs may participate in basal transcription, serve as coactivators, function in promoter recognition or modify general transcription factors (GTFs) to facilitate complex assembly and transcription initiation. This gene encodes the largest subunit of TFIID. This subunit binds to core promoter sequences encompassing the transcription start site. It also binds to activators and other transcriptional regulators, and these interactions affect the rate of transcription initiation. This subunit contains two independent protein kinase domains at the N- and C-termini, but also possesses acetyltransferase activity and can act as a ubiquitin-activating/conjugating enzyme. Mutations in this gene result in Dystonia 3, torsion, X-linked, a dystonia-parkinsonism disorder. Alternative splicing of this gene results in multiple transcript variants. This gene is part of a complex transcription unit (TAF1/DYT3), wherein some transcript variants share exons with TAF1 as well as additional downstream DYT3 exons. [provided by RefSeq, Oct 2013]
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the TAF1 family. Contains 2 bromo domains. Contains 1 HMG box DNA-binding domain. Contains 2 protein kinase domains.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	TAF1 TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 250kDa [Homo sapiens (human)]
Official Symbol	TAF1
Synonyms	TAF1; TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 250kDa; OF; XDP; BA2R; CCG1; CCGS; DYT3; KAT4; P250; NSCL2; TAF2A; N-TAF1; TAFII250; DYT3/TAF1; TAFII-250; TAF(II)250; transcription initiation factor TFIID subunit 1; cell cycle gene 1 protein; cell cycle, G1 phase defect; TBP-associated factor 250 kDa; transcription factor TFIID p250 polypeptide; complementation of cell cycle block, G1-to-S;
Entrez Gene ID	6872
mRNA Refseq	NM_001286074.1
Protein Refseq	NP_001273003.1
UniProt ID	P21675
Chromosome Location	Xq13.1
Pathway	Basal transcription factors, organism-specific biosystem; Basal transcription factors, conserved biosystem; Disease, organism-specific biosystem; Gene Expression, organism-specific biosystem; HIV Infection, organism-specific biosystem; HIV Life Cycle, organism-specific biosystem; HIV Transcription Initiation, organism-specific biosystem; Late Phase of HIV Life Cycle, organism-specific biosystem; RNA Polymerase II HIV Promoter Escape, organism-specific biosystem; RNA Polymerase II Pre-transcripti
Function	ATP binding; TBP-class protein binding; histone acetyl-lysine binding; histone acetyltransferase activity; p53 binding; protein binding; protein serine/threonine kinase activity; sequence-specific DNA binding; transcription coactivator activity; transcrip