Recombinant Human TAF1, His&FLAG-tagged

Cat. No. TAF1-78H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TAF1 corresponding to amino acids 1398-1524 that contains the bromodomain sequences of TAF1 (accession number NP_004597.2) was expressed in E. coli and contains an N-terminal His tag and C-terminal FLAG tag with an observed molecular weight of 21 kDa.
Species	Human
Source	E.coli
ProteinLength	1398-1524 a.a.
Description	TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor (TAF1) is the largest component and core scaffold of the TFIID basal transcription factor complex. TAF1 contains novel N- and C-terminal Ser/Thr kinase domains which can autophosphorylate or transphosphorylate other transcription factors. TAF1 also contains bromodomains for interaction with other proteins. The bromodomain functions as a "reader" of epigenetic histone marks and regulates chromatin structure and gene expression by linking associated proteins to the recognized acetylated nucleosomal targets. TAF1 has been shown to phosphorylate threonine 55 of p53 which leads to MDM2-mediated degradation of p53. TAF1 also phosphorylates GTF2A1 and GTF2F1 on serine residues. In addition, TAF1 possesses DNA-binding activity and is essential for progression of the G1 phase of the cell cycle.
Form	25 mM HEPES pH 7.5, 150 mM NaCl and 5% glycerol.

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Applications	Binding assays, inhibitor screening, and selectivity profiling.
Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Concentration	5.5 mg/ml

GENE INFORMATION

Gene Name	TAF1 TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 250kDa [Homo sapiens]
Official Symbol	TAF1
Synonyms	TAF1; TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 250kDa; BA2R, CCG1, CCGS, dystonia 3 (with Parkinsonism) , DYT3, TAF2A, TATA box binding protein (TBP) associated factor, RNA polymerase II, A, 250kD; transcription initiation factor TFIID subunit 1; DYT3/TAF1; KAT4; NSCL2; TAFII250; TAFII-250; TAF(II)250; 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; transcription initiation factor TFIID 250 kDa subunit; OF; XDP; BA2R; CCG1; CCGS; DYT3; P250; TAF2A; N-TAF1;
Gene ID	6872
mRNA Refseq	NM_004606
Protein Refseq	NP_004597
MIM	313650

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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-1 Transcription Initiation, organism-specific biosystem;
Function	ATP binding; TBP-class protein binding; histone acetyl-lysine binding; histone acetyltransferase activity; kinase activity; nucleotide binding; p53 binding; protein binding; protein serine/threonine kinase activity; sequence-specific DNA binding; transcription coactivator activity; transcription factor binding; contributes_to transcription regulatory region DNA binding; transferase activity;

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