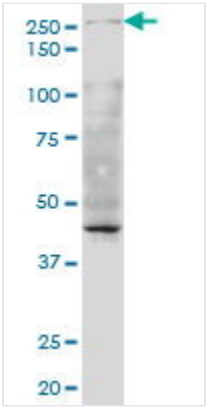
TAF1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	TAF1, Monoclonal Antibody
Full Product Name	TAF1 (TAF1 RNA Polymerase II, TATA Box Binding Protein (TBP)-Associated Factor, 250kD, BA2R, CCG1, CCGS, DYT3, KAT4, N-TAF1, NSCL2, OF TAFII250) (HRP)
Product Gene Name	anti-TAF1 antibody
Product Synonym Names	TAF1 RNA Polymerase II; TATA Box Binding Protein (TBP)-Associated Factor; 250kD; BA2R; CCG1; CCGS; DYT3; KAT4; N-TAF1; NSCL2; OF; P250 TAFII250
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	1G9
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with horseradish peroxidase (HRP).
Purity/Purification	Purified
Specificity	Recognizes TAF1.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in as Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original and prior to removing the cap.
Molecular Weight	215kDa
OMIM	313650
3D Structure	ModBase 3D Structure for P21675
Immunogen	TAF1 (NP_004597, 1784aa-1893aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	RMLQENTRMDMENEESMMSYEGDGGEASHGLEDSNISYGSYEEPDPKSNTQDTSFSSIGGYEVSEEEEDEEEEEQRSGPSVLSQVHLSEDEEDSEDFH
Conjugate	HRP
Product Categories/Family for anti-TAF1 antibody	Antibodies; Enzymes; Polymerase
Applications Tested/Suitable for anti-TAF1 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-TAF1 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-TAF1 antibody	MBS6180161 is an antibody targeting TAF1. Also known as TAF1 (TAF1 RNA Polymerase II, TATA Box Binding Protein (TBP)-Associated Factor, 250 CCGS, DYT3, KAT4, N-TAF1, NSCL2, OF, P250, TAF2A, TAFII250) (HRP). Host: Mouse.
Other Notes	Small volumes of anti-TAF1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessa 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 apply.



Western Blot (WB) of anti-TAF1 antibody
TAF1 monoclonal antibody (M02), clone 1G9 Western Blot analysis of TAF1 expression in Hela S3 NE (Cat # L013V3).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TAF1. It may not necessarily be applicable to this product.

NCBI GI #	20357585
NCBI GeneID	6872
NCBI Accession #	NP_004597
UniProt Primary Accession #	P21675
UniProt Related Accession #	P21675
GenBank Nucleotide #	NM_004606
NCBI Official Full Name	transcription initiation factor TFIID subunit 1 isoform 1
NCBI Official Synonym Full Names	TATA-box binding protein associated factor 1
NCBI Official Symbol	TAF1
NCBI Official Synonym Symbols	OF; XDP; BA2R; CCG1; CCGS; DYT3; KAT4; P250; NSCL2; TAF2A; MRXS33; N-TAF1; TAFII250; DYT3/TAF1; TAFII-250; TAF(II)250
UniProt Protein Name	Transcription initiation factor TFIID subunit 1
UniProt Synonym Protein Names	Cell cycle gene 1 protein; TBP-associated factor 250 kDa; p250; Transcription initiation factor TFIID 250 kDa subunit
Protein Family	Taz1-interacting factor
UniProt Gene Name	TAF1
UniProt Synonym Gene Names	BA2R; CCG1; CCGS; TAF2A; p250; TAF(II)250; TAFII-250; TAFII250
UniProt Entry Name	TAF1_HUMAN
NCBI Protein Information	transcription initiation factor TFIID subunit 1

NCBI Summary for TAF1	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-terminals, 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]
UniProt Comments for TAF1	TAF1: Largest component and core scaffold of the TFIID basal transcription factor complex. Contains novel N- and C-terminal Ser/Thr kinase domains which can autophosphorylate or transphosphorylate other transcription factors. Phosphorylates TP53 on 'Thr-55' which leads to MDM2-mediated degradation of TP53. Phosphorylates GTF2A1 and GTF2F1 on Ser residues. Possesses DNA- binding activity. Essential for progression of the G1 phase of the cell cycle. Defects in TAF1 are the cause of dystonia type 3 (DYT3); also called X-linked dystonia-parkinsonism (XDP). DYT3 is a X-linked dystonia-parkinsonism disorder. Dystonia is defined by the presence of sustained involuntary muscle contractions, often leading to abnormal postures. DYT3 is characterized by severe progressive torsion dystonia followed by parkinsonism. Its prevalence is high in the Philippines. DYT3 has a well-defined pathology of extensive neuronal loss and mosaic gliosis in the striatum (caudate nucleus and putamen) which appears to resemble that in Huntington disease. Belongs to the TAF1 family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.3.1.48; DNA-binding; Protein kinase, Ser/Thr (non-receptor); EC 2.7.11.1; Kinase, protein; Protein kinase, atypical; Transcription, coactivator/corepressor; ATYPICAL group; TAF1 family Chromosomal Location of Human Ortholog: Xq13.1 Cellular Component: nucleoplasm; transcription factor TFIID complex Molecular Function: protein serine/threonine kinase activity; protein binding; histone acetyltransferase activity; p53 binding; sequence-specific DNA binding; TATA-binding protein binding; transcription coactivator activity; transcription factor binding; ATP binding Biological Process: transcription from RNA polymerase II promoter; transcription initiation from RNA polymerase II promoter; viral reproduction; protein amino acid autophosphorylation; transcription initiation; peptidyl-threonine phosphorylation; transcriptional preinitiation complex assembly; cell cycle; peptidyl-serine phosphorylation; positive regulation of proteasomal ubiquitin-dependent protein catabolic process; RNA elongation from RNA polymerase II promoter; positive regulation of transcription from RNA polymerase II promoter; gene expression; histone acetylation; response to DNA damage stimulus Disease: Dystonia 3, Torsion, X-linked
Research Articles on TAF1	**1.** Our findings highlight the regulatory networks among TFs, lncRNAs, miRNAs, and mRNAs in hepatocellular carcinoma (HCC). Several key molecules, such as hsa-miR-195, lncRNA MALAT1 and TFs TAF1 and HNF4alpha, may contribute to the progression of HCC.
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