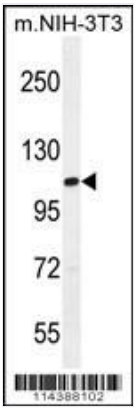
TAF1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TAF1, Polyclonal Antibody
Full Product Name	TAF1, CT (TAF1, BA2R, CCG1, CCGS, TAF2A, Transcription initiation factor TFIID subunit 1, Cell cycle gene 1 protein, TBP-associated factor 250kD, Transcription initiation factor TFIID 250kD subunit)
Product Gene Name	anti-TAF1 antibody
Product Synonym Names	Anti -TAF1, CT (TAF1, BA2R, CCG1, CCGS, TAF2A, Transcription initiation factor TFIID subunit 1, Cell cycle gene 1 protein, TBP-associated factor 250kD, Transcription initiation factor TFIID 250kD subunit)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Mouse
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	212,677 Da
Chromosome Location	Chromosome: X; NC_000023.10 (70586094..70685855). Location: Xq13.1
OMIM	313650
3D Structure	ModBase 3D Structure for P21675
Immunogen	TAF1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1860-1893 amino acids from the C-terminal region of human TAF1.
Product Categories/Family for anti-TAF1 antibody	Antibodies; Abs to Transcription Factors
Applications Tested/Suitable for anti-TAF1 antibody	ELISA (EL/EIA), Western Blot (WB)
Application Notes for anti-TAF1 antibody	Suitable for use in Western Blot, ELISA Dilution: ELISA: 1:1,000 Western Blot: 1:100-500

Related Product Information for anti-TAF1 antibody	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. This gene is part of a complex transcriptional unit (TAF1/DYT3), wherein some products share exons with TAF1 as well as additional exons downstream.
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 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 TAF1 purchase	MBS647425 is an antibody targeting TAF1. Also known as TAF1, CT (TAF1, BA2R, CCG1, CCGS, TAF2A, Transcription initiation factor TFIID subunit 1, Cell cycle gene 1 protein, TBP-associated factor 250kD, Transcription initiation factor TFIID 250kD subunit). Reactive in Mouse. Host: Rabbit.



Western Blot (WB) of anti-TAF1 antibody
TAF1 Antibody (C-term) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane).This demonstrates the TAF1 antibody detected the TAF1 protein (arrow).

ADDITIONAL DETAILS

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

NCBI GI #	119625700
NCBI GeneID	6872
NCBI Accession #	EAX05295.1
UniProt Primary Accession #	P21675
UniProt Secondary Accession #	Q59FZ3; Q6IUZ1; Q70Q86; Q70Q87; Q70T00; Q70T01; Q70T02; Q70T03; A5CVD0
UniProt Related Accession #	P21675
NCBI Official Full Name	TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 250kDa, isoform CRA_e
NCBI Official Synonym Full Names	TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 250kDa
NCBI Official Symbol	TAF1
NCBI Official Synonym Symbols	OF; XDP; BA2R; CCG1; CCGS; DYT3; KAT4; P250; NSCL2; TAF2A; N-TAF1; TAFII250; DYT3/TAF1
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; 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
UniProt Comments for TAF1	Function: 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. Ref.1 Ref.8 Ref.9 Ref.11 Ref.12 Ref.14 Ref.17 Catalytic activity: ATP + a protein = ADP + a phosphoprotein. Cofactor: Magnesium. Enzyme regulation: Autophosphorylates on Ser residues. Inhibited by retinoblastoma tumor suppressor protein, RB1. Subunit structure: TAF1 is the largest component of transcription factor TFIID that is composed of TBP and a variety of TBP-associated factors. TAF1, when part of the TFIID complex, interacts with C-terminus of TP53. Component of some MLL1/MLL complex, at least composed of the core components KMT2A/MLL1, ASH2L, HCFC1/HCF1, WDR5 and RBBP5, as well as the facultative components BAP18, CHD8, E2F6, HSP70, INO80C, KANSL1, LAS1L, MAX, MCRS1, MGA, KAT8/MOF, PELP1, PHF20, PRP31, RING2, RUVB1/TIP49A, RUVB2/TIP49B, SENP3, TAF1, TAF4, TAF6, TAF7, TAF9 and TEX10. RB1 interacts with the N-terminal domain of TAF1. Interacts with ASF1A and ASF1B. Interacts with SV40 Large T antigen. Interacts (via bromo domains) with acetylated lysine residues on the N-terminus of histone H1.4, H2A, H2B, H3 and H4 (in vitro). Ref.3 Ref.10 Ref.12 Ref.13 Ref.15 Ref.16 Ref.17 Ref.18 Ref.24 Subcellular location: Nucleus Ref.1. Post-translational modification: Phosphorylated by casein kinase II in vitro. Ref.9 Involvement in disease: Dystonia 3, torsion, X-linked (DYT3) [MIM:314250]: 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. It 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.Note: The disease is caused by mutations affecting the gene represented in this entry. Ref.6 Ref.23 Sequence similarities: Belongs to the TAF1 family.Contains 2 bromo domains.Contains 1 HMG box DNA-binding domain.Contains 2 protein kinase domains.
Research Articles on TAF1	**1.** Although d3-d4 also affect genes potentially related to neurodegenerative processes, their physiologic role as splice variants of TAF1 awaits further exploration
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