TAF9 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TAF9, Polyclonal Antibody
Full Product Name	TAF9, NT (TAF9, TAF2G, TAFII31, Transcription initiation factor TFIID subunit 9, RNA polymerase II TBP-associated factor subunit G, STAF31/32, Transcription initiation factor TFIID 31kD subunit, Transcription initiation factor TFIID 32kD subunit) (MaxLigh
Product Gene Name	anti-TAF9 antibody
Product Synonym Names	TAF9; TAF2G; TAFII31; Transcription initiation factor TFIID subunit 9; RNA polymerase II TBP-associated factor subunit G; STAF31/32; Transcription initiation factor TFIID 31kD subunit; Transcription initiation factor TFIID 32kD subunit
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	28,974 Da
OMIM	600822
3D Structure	ModBase 3D Structure for Q16594
Immunogen	TAF9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human TAF9.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-TAF9 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-TAF9 antibody	Western Blot (WB), FLISA
Application Notes for anti-TAF9 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.

Related Product Information for anti-TAF9 antibody	Initiation of transcription by RNA polymerase II requires the activities of more than 70 polypeptides. The protein that coordinates these activities is transcription factor IID (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 one of the smaller subunits of TFIID that binds to the basal transcription factor GTF2B as well as to several transcriptional activators such as p53 and VP16. A similar but distinct gene (TAF9L) has been found on the X chromosome and a pseudogene has been identified on chromosome 19. Alternative splicing results in multiple transcript variants encoding different isoforms.
Product References and Citations for anti-TAF9 antibody	Kim, D.H., et al. BMB Rep 42(7):411-417(2009). Sengupta, T., et al. Proc. Natl. Acad. Sci. U.S.A. 106(11):4213-4218(2009). Liu, X., et al. Mol. Cell. Biol. 28(1):108-121(2008). McKeegan, K.S., et al. Mol. Cell. Biol. 27(19):6782-6793(2007). Olsen, J.V., et al. Cell 127(3):635-648(2006).
Other Notes	Small volumes of anti-TAF9 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 TAF9 purchase	MBS6353453 is an antibody targeting TAF9. Also known as TAF9, NT (TAF9, TAF2G, TAFII31, Transcription initiation factor TFIID subunit 9, RNA polymerase II TBP-associated factor subunit G, STAF31/32, Transcription initiation factor TFIID 31kD subunit, Transcription initiation factor TFIID 32kD subunit) (MaxLigh. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TAF9. It may not necessarily be applicable to this product.

NCBI GI #	62865614
NCBI GeneID	6880
NCBI Accession #	NP_001015892.1
NCBI Related Accession #	NP_003178.1
UniProt Primary Accession #	Q16594
UniProt Secondary Accession #	Q5U0D1; Q9BTS1; D3DWA3
UniProt Related Accession #	Q16594
GenBank Nucleotide #	NM_001015892.1
NCBI Official Full Name	transcription initiation factor TFIID subunit 9
NCBI Official Synonym Full Names	TAF9 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 32kDa
NCBI Official Symbol	TAF9
NCBI Official Synonym Symbols	TAF2G; TAFII31; TAFII32; MGC:5067; TAFII-31; TAFII-32; TAFIID32; STAF31/32
UniProt Protein Name	Transcription initiation factor TFIID subunit 9
UniProt Synonym Protein Names	RNA polymerase II TBP-associated factor subunit G; STAF31/32; Transcription initiation factor TFIID 31 kDa subunit; TAFII-31; TAFII31; Transcription initiation factor TFIID 32 kDa subunit; TAFII-32; TAFII32
Protein Family	Transcription initiation factor
UniProt Gene Name	TAF9
UniProt Synonym Gene Names	TAF2G; TAFII31; TAFII-31; TAFII31; TAFII-32; TAFII32
UniProt Entry Name	TAF9_HUMAN
NCBI Protein Information	transcription initiation factor TFIID subunit 9; RNA polymerase II TBP-associated factor subunit G; transcription initiation factor TFIID 31 kD subunit; transcription initiation factor TFIID 31 kDa subunit; transcription initiation factor TFIID 32 kDa sub

NCBI Summary for TAF9	Initiation of transcription by RNA polymerase II requires the activities of more than 70 polypeptides. The protein that coordinates these activities is transcription factor IID (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 one of the smaller subunits of TFIID that binds to the basal transcription factor GTF2B as well as to several transcriptional activators such as p53 and VP16. In human, TAF9 and AK6 (GeneID: 102157402) are two distinct genes that share 5' exons. A similar but distinct gene (TAF9L) has been found on the X chromosome and a pseudogene has been identified on chromosome 19. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]
UniProt Comments for TAF9	TAFII31: a component of the transcription factor IID (TFIID) complex, PCAF histone acetylase complex and TBP-free TAFII complex (TFTC). TIIFD is essential for mediating regulation of RNA polymerase transcription. TAFII31 binds to p53, the basal transcription factor GTF2B, and the acidic transactivator viral protein 16 (VP16). It is a coactivator for P53. Protein type: EC 2.7.4.3; Transcription initiation complex; DNA-binding; Acetyltransferase; Kinase, other Chromosomal Location of Human Ortholog: 5q13.2 Cellular Component: nucleoplasm; PCAF complex; transcription factor TFIID complex Molecular Function: protein binding; histone acetyltransferase activity; DNA binding; transcription activator binding; protein heterodimerization activity; p53 binding; transcription coactivator activity Biological Process: transcription from RNA polymerase II promoter; transcription initiation from RNA polymerase II promoter; establishment and/or maintenance of chromatin architecture; viral reproduction; protein stabilization; RNA elongation from RNA polymerase II promoter; gene expression; positive regulation of transcription from RNA polymerase II promoter; positive regulation of cell growth; negative regulation of proteasomal ubiquitin-dependent protein catabolic process; response to DNA damage stimulus; negative regulation of apoptosis
Research Articles on TAF9	**1.** TFIID TAF6-TAF9 complex formation involves the HEAT repeat-containing C-terminal domain of TAF6 and is modulated by TAF5 protein.
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