10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TAF10 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18828c

Product Information

Application	WB, E
Primary Accession	Q12962
Other Accession	Q8K0H5, NP_006275.1
Reactivity	Human, Mouse
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	21711
Antigen Region	121-150

Additional Information

Gene ID	6881
Other Names	Transcription initiation factor TFIID subunit 10, STAF28, Transcription initiation factor TFIID 30 kDa subunit, TAF(II)30, TAFII-30, TAFII30, TAF10, TAF2A, TAF2H, TAFII30
Target/Specificity	This TAF10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 121-150 amino acids from the Central region of human TAF10.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TAF10 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TAF10
Synonyms	TAF2A, TAF2H, TAFII30

Function	The TFIID basal transcription factor complex plays a major role in the initiation of RNA polymerase II (Pol II)-dependent transcription (PubMed:33795473). TFIID recognizes and binds promoters with or without a TATA box via its subunit TBP, a TATA-box-binding protein, and promotes assembly of the pre-initiation complex (PIC) (PubMed:33795473). The TFIID complex consists of TBP and TBP-associated factors (TAFs), including TAF1, TAF2, TAF3, TAF4, TAF5, TAF6, TAF7, TAF8, TAF9, TAF10, TAF11, TAF12 and TAF13 (PubMed:33795473). TAF10 is also component of the PCAF histone acetylase complex, the TATA-binding protein-free TAF complex (TFTC) and the STAGA transcription coactivator-HAT complex (PubMed:10373431, PubMed:11564863, PubMed:12601814, PubMed:18206972, PubMed:9885574). May regulate cyclin E expression (By similarity).
Cellular Location	Nucleus

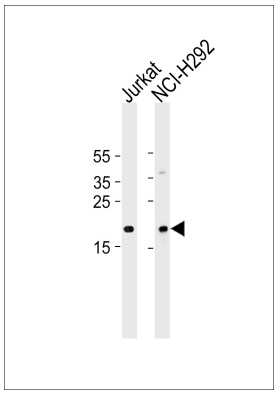
Background

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 small subunits of TFIID that is associated with a subset of TFIID complexes. Studies with human and mammalian cells have shown that this subunit is required for transcriptional activation by the estrogen receptor, for progression through the cell cycle, and may also be required for certain cellular differentiation programs.

References

Egloff, S., et al. J. Biol. Chem. 285(27):20564-20569(2010)
Ma, Y., et al. J. Biol. Chem. 285(13):9813-9822(2010)
Zhao, Y., et al. Mol. Cell 29(1):92-101(2008)
Hao, H., et al. Oncogene 26(57):7872-7884(2007)
Couture, J.F., et al. Nat. Struct. Mol. Biol. 13(2):140-146(2006)

Images



TAF10 Antibody (Center) (Cat. #AP18828c) western blot analysis in Jurkat,NCI-H292 cell line lysates (35ug/lane).This demonstrates the TAF10 antibody detected the TAF10 protein (arrow).