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TAF5 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50771

Product Information

Application	WB, IHC
Primary Accession	Q15542
Reactivity	Human, Mouse
Host	Rabbit
Clonality	polyclonal
Calculated MW	86830

Additional Information

Gene ID	6877
Other Names	Transcription initiation factor TFIID subunit 5, Transcription initiation factor TFIID 100 kDa subunit, TAF(II)100, TAFII-100, TAFII100, TAF5, TAF2D
Dilution	WB~~ 1:1000 IHC~~1:50-100
Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.
Storage Conditions	-20℃

Protein Information

Name	TAF5
Synonyms	TAF2D
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, PubMed:8758937, PubMed:8942982, PubMed:9045704). The TFIID complex structure can be divided into 3 modules TFIID-A, TFIID-B, and TFIID-C (PubMed:33795473). TAF5 is involved in two modules of TFIID, in TFIID-A together with TAF3 and TBP, and in TFIID-B with TAF8 (PubMed:33795473). Involved in contacts between TFIID and TFIIF in the PIC (PubMed:33795473).
Cellular Location	Nucleus.

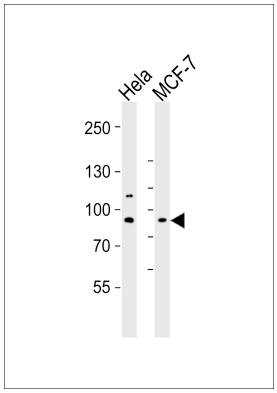
Background

TAFs are components of the transcription factor IID (TFIID) complex, PCAF histone acetylase complex and TBP-free TAFII complex (TFTC). TAFs components-TIIFD are essential for mediating regulation of RNA polymerase transcription. TAF5/TAFII100 interacts strongly with the histone H4-related TAF6/TAFII80 and the histone H3-related TAF9/TAFII31, as well as a stable complex comprised of both TAF5/TAFII80 and TAF6/TAFII31. Apparently weaker interactions of TAF5/TAFII100 with TBP, TAF1/TAFII250, TAF11/TAFII28, and TAF12/TAFII20, but not TAF7/TAFII55, also have been observed.

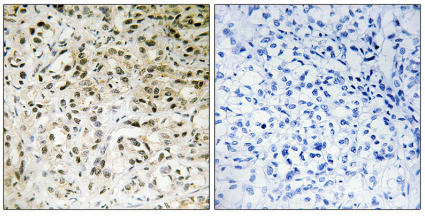
References

Dubrovskaya V.,et al.EMBO J. 15:3702-3712(1996).
Tanese N.,et al.Proc. Natl. Acad. Sci. U.S.A. 93:13611-13616(1996).
Tao Y.,et al.J. Biol. Chem. 272:6714-6721(1997).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Totoki Y.,et al.Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.

Images



Western blot analysis of lysates from Hela,MCF-7 cell line (from left to right),using TAF5 Antibody(AP50771). AP50771 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysates at 35ug per lane.



Immunohistochemistry analysis of paraffin-embedded human liver carcinoma tissue using TAF5 antibody.

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