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Anti-TAF1 Antibody

Catalog # AP61195

Product Information

Application	WB, IHC
Primary Accession	P21675
Reactivity	Human, Mouse, Rat, Pig, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	214714

Additional Information

Gene ID	6872
Other Names	BA2R; CCG1; CCGS; TAF2A; Transcription initiation factor TFIID subunit 1; Cell cycle gene 1 protein; TBP-associated factor 250 kDa; p250; Transcription initiation factor TFIID 250 kDa subunit; TAF(II)250; TAFII-250; TAFII250
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human TAF1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/50 - 1/200) IHC~~WB (1/500 - 1/1000), IHC (1/50 - 1/200)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

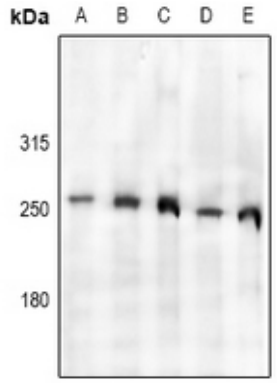
Protein Information

Name	TAF1 (HGNC:11535)
Synonyms	BA2R, CCG1, CCGS, TAF2A
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). TAF1 is the largest component and core scaffold of the TFIID complex, involved in nucleating complex assembly (PubMed:25412659, PubMed:27007846, PubMed:33795473). TAF1 forms a promoter DNA binding subcomplex of TFIID, together with TAF7 and TAF2

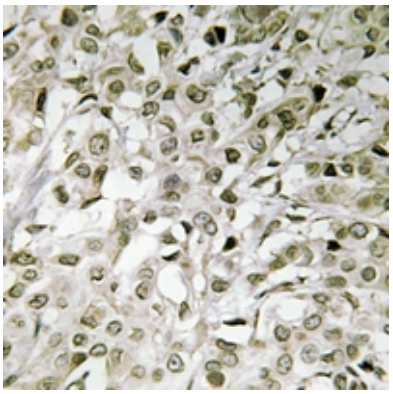
(PubMed:33795473). Contains novel N- and C-terminal Ser/Thr kinase domains which can autophosphorylate or transphosphorylate other transcription factors (PubMed:25412659, PubMed:8625415). Phosphorylates TP53 on 'Thr-55' which leads to MDM2- mediated degradation of TP53 (PubMed:25412659). Phosphorylates GTF2A1 and GTF2F1 on Ser residues (PubMed:25412659). Possesses DNA-binding activity (PubMed:25412659). Essential for progression of the G1 phase of the cell cycle (PubMed:11278496, PubMed:15053879, PubMed:2038334, PubMed:8450888, PubMed:8625415, PubMed:9660973, PubMed:9858607). Exhibits histone acetyltransferase activity towards histones H3 and H4 (PubMed:15870300).

Cellular Location Nucleus

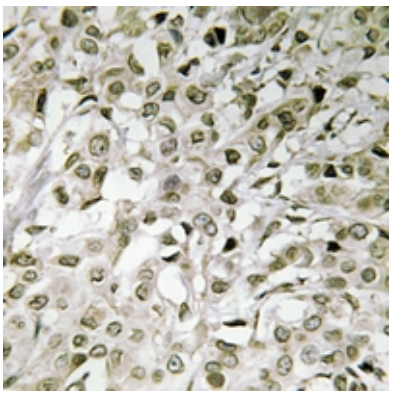
Images



Western blot analysis of TAF1 expression in HepG2 (A), LO2 (B), H1792 (C), AML12 (D), C6 (E) whole cell lysates. (Predicted band size: 212 kD; Observed band size: 250 kD)



Immunohistochemical analysis of TAF1 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.