

TAF1 Antibody

Rabbit mAb Catalog # AP92607

Product Information

Application WB Primary Accession P21675

Reactivity Rat, Human, Mouse

Clonality Monoclonal

Other Names BA2R; CCG1; CCGS; DYT3; N TAF1; NSCL2; p250; TAF1; TAF2A; TAFII250; XDP;

IsotypeRabbit IgGHostRabbitCalculated MW214714

Additional Information

Dilution WB 1:500~1:2000

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human TAF1

Description 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.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium

azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

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Avoid freeze / thaw cycle.

Protein Information

Name TAF1 (<u>HGNC:11535</u>)

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:<u>33795473</u>). 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:<u>33795473</u>). 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:<u>33795473</u>). TAF1 is the largest component and core scaffold

of the TFIID complex, involved in nucleating complex assembly

(PubMed:<u>25412659</u>, PubMed:<u>27007846</u>, PubMed:<u>33795473</u>). TAF1 forms a promoter DNA binding subcomplex of TFIID, together with TAF7 and TAF2 (PubMed:<u>33795473</u>). Contains novel N- and C-terminal Ser/Thr kinase domains which can autophosphorylate or transphosphorylate other

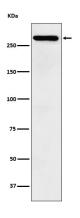
transcription factors (PubMed:<u>25412659</u>, PubMed:<u>8625415</u>). Phosphorylates

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 SH-SY5Y cell lysate.

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