

Rabbit anti-Human, Mouse TAF1 Polyclonal Antibody | anti-TAF1 antibody

TAF1 Antibody

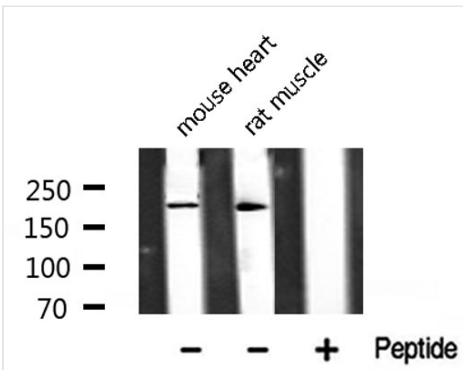
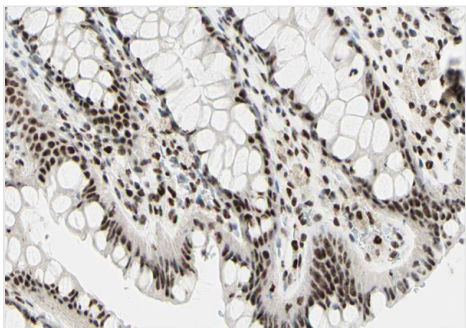
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320997	Rabbit	Human, Mouse	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

TAF1; Polyclonal Antibody; TAF1 Antibody; BA2R; CCG1; CCGS; Cell cycle G1 phase defect; Cell cycle gene 1 protein; Complementation of cell cycle block G1 to S; DYT3; N TAF1; NSCL2; OF; p250; TAF 1; TAF(II)250; TAF1 RNA polymerase II TATA box binding protein (TBP) associated factor 250kDa; TAF1_HUMAN; TAF2A; TAFII-250; TAFII250; TATA box binding protein (TBP) associated factor RNA polymerase II A 250kD; TBP associated factor 250 kDa; TBP-associated factor 250 kDa; Transcription factor TFIID p250 polypeptide; Transcription initiation factor TFIID 250 kDa subunit; Transcription initiation factor TFIID subunit 1; XDP; anti-TAF1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	TAF1 antibody detects endogenous levels of TAF1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1895
Applicable Applications for anti-TAF1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human TAF1
Subcellular Location	Nucleus.
Predicted Cross Reactivity	Pig, Bovine, Horse, Rabbit, Dog, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Rabbit (100%), Dog (100%), Xenopus (91%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA320997 at 1/100 staining human colon tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of TAF1 Antibody expression in mouse heart and rat muscle tissues lysates. The lane on the right is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-TAF1 antibody

Description: Initiation of transcription by RNA polymerase II requires the activities of more than 70 polypeptides. The protein that coordinates these activities is the basal transcription factor 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 the largest subunit of TFIID. This subunit binds to core promoter sequences encompassing the transcription start site. It also binds to activators and other transcriptional regulators, and these interactions affect the rate of transcription initiation. This subunit contains two independent protein kinase domains at the N and C-terminals, but also possesses acetyltransferase activity and can act as a ubiquitin-activating/conjugating enzyme. Two transcripts encoding different isoforms have been identified for this gene.

Function: Largest component and core scaffold of the TFIID basal transcription factor complex (PubMed:25412659, PubMed:27007846). Contains novel N-and C-terminal Ser/Thr kinase domains which can autophosphorylate or transphosphorylate other transcription factors. Phosphorylates TP53 on 'Thr-55' which leads to MDM2-mediated degradation of TP53. Phosphorylates GTF2A1 and GTF2F1 on Ser residues. 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).

Subunit Structure: TAF1 is the largest component of transcription factor TFIID that is composed of TBP and a variety of TBP-associated factors (PubMed:7680771). TAF1, when part of the TFIID complex, interacts with C-terminus of TP53 (PubMed:15053879). Part of a TFIID-containing RNA polymerase II pre-initiation complex that is composed of TBP and at least GTF2A1, GTF2A2, GTF2E1, GTF2E2, GTF2F1, GTF2H2, GTF2H3, GTF2H4, GTF2H5, GTF2B, TCEA1, ERCC2, ERCC3, TAF1, TAF2, TAF3, TAF4, TAF5, TAF6, TAF7, TAF8, TAF9, TAF10, TAF11, TAF12 and TAF13 (PubMed:27007846). Interacts with TAF7; the interaction is direct (PubMed:25412659). Component of some MLL1/MLL complex, at least composed of the core components KMT2A/MLL1, ASH2L, HCFC1/HCF1, WDR5 and RBBP5, as well as the facultative components BAP18, CHD8, E2F6, HSP70, INO80C, KANSL1, LAS1L, MAX, MCARS1, MGA, KAT8/MOF, PELP1, PHF20, PRP31, RING2, RUVB1/TIP49A, RUVB2/TIP49B, SENP3, TAF1, TAF4, TAF6, TAF7, TAF9 and TEX10. RB1 interacts with the N-terminal domain of TAF1. Interacts with ASF1A and ASF1B (PubMed:10759893, PubMed:12093919, PubMed:12842904). Interacts (via bromo domains) with acetylated lysine residues on the N-terminus of histone H1.4, H2A, H2B, H3 and H4 (in vitro) (PubMed:22464331). Interacts with SV40 Large T antigen (PubMed:8647434). Interacts with herpes simplex virus 1 ICP4 (PubMed:8649420).

Post-translational Modifications: Phosphorylated by casein kinase II in vitro.

Similarity: The Bromo domain mediates interaction with histones that have acetylated lysine residues at specific positions (PubMed:22464331). The second domain also recognizes and binds histones that are butyrylated and crotonylated (PubMed:26365797). Belongs to the TAF1 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	554503966
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NCBI GeneID	6872
NCBI Accession #	NP_001273003.1
NCBI GenBank Nucleotide #	NM_001286074.1
UniProt Accession #	P21675; Q59FZ3; Q6IUZ1; Q70Q86; Q70Q87; Q70T00; Q70T01; A5CVC8; A5CVC9; A5CVD0; A5CVD1; B1Q2X3
Molecular Weight	Observed: 212 kDa Predicted: 213 kDa
NCBI Official Full Name	transcription initiation factor TFIID subunit 1 isoform 3
NCBI Official Synonym Full Names	TATA-box binding protein associated factor 1
NCBI Official Symbol	TAF1
NCBI Official Synonym Symbols	OF; XDP; BA2R; CCG1; CCGS; DYT3; KAT4; P250; NSCL2; TAF2A; MRXS33; N-TAF1; TAFII250; DYT3/TAF1; TAFII-250; TAF(II)250
NCBI Protein Information	transcription initiation factor TFIID subunit 1
UniProt Protein Name	Transcription initiation factor TFIID subunit 1
UniProt Gene Name	TAF1
UniProt Synonym Gene Names	BA2R; CCG1; CCGS; TAF2A; p250; TAF(II)250; TAFII-250; TAFII250

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/taf1-antibody-immunohistochemistry-western-blot-elisa/320997>