

Product datasheet for **TA319435**

TAF1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1:10,000 - 1:50,000, WB: 1:100 - 1:2,000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids near the carboxyl terminus of human TAF1.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	TATA-box binding protein associated factor 1
Database Link:	NP_004597 Entrez Gene 270627 Mouse Entrez Gene 317256 Rat Entrez Gene 6872 Human P21675
Synonyms:	BA2R; CCG1; CCGS; DYT3; KAT4; MRXS33; N-TAF1; NSCL2; OF; P250; TAF(II)250; TAF1; TAF2A



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Note: This antibody is suitable for Cancer, Immunology and Nuclear Signaling research. Transcription Initiation Factor TFIID Subunit 1 (TAF1) is the largest component and core scaffold of the TFIID basal transcription factor complex, which also includes TATA-binding protein (TBP) and a variety of TBP-associated factors. TFIID nucleates the formation of transcription pre-initiation complexes and plays a key role in the regulation of gene expression by RNA polymerase II. TAF1 possesses DNA-binding activity and also contains novel N- and C-terminal Ser/Thr kinase domains which can auto-phosphorylate or trans-phosphorylate other transcription factors. For example, TAF1 interacts with the C-terminus of TP53 and phosphorylates the T55 residue, leading to MDM2-mediated degradation of TP53. TAF1 also catalyzes Ser phosphorylation of general transcription factor IIA (GTF2A1) and IIF (GTF2F1). The retinoblastoma tumor suppressor protein, RB1, interacts with the N-terminal domain of TAF1 and inhibits its intrinsic kinase activity. TAF1 is essential for progression through the G1 phase of the cell cycle and has been reported to be indispensable for expression of 18% of mammalian genes.

Protein Families: Protein Kinase
Protein Pathways: Basal transcription factors

Product images:



Western blot using affinity purified anti-TAF1 to detect TAF1 in HeLa nuclear extract (arrowhead). The membrane was probed with the primary antibody at dilutions of 1:100 (lane 1), 1:250 (lane 2), 1: 500 (Lane 3 and 1:1,000 (Lane 4). The identity of the bands at ~95 kDa is unknown, but may be degraded TAF1. Personal Communication, Anne Gegonne, CCR-NCI, Bethesda, MD.



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