

TAF1 polyclonal antibody

Catalog # PAB11285 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot using TAF1 polyclonal antibody (Cat # PAB11285) 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 Geggion, CCR-NCI, Bethesda, MD.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of TAF1.
Immunogen	A synthetic peptide corresponding to C-terminus of human TAF1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:10000-1:50000) Western Blot (1:100-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH ₂ PO ₄ , 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — TAF1

Entrez GeneID[6872](#)**Protein Accession#**[P21675](#)**Gene Name**

TAF1

Gene Alias

BA2R, CCG1, CCGS, DYT3, KAT4, N-TAF1, NSCL2, OF, P250, TAF2A, TAFII250

Gene Description

TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 250kDa

Omim ID[313650](#) [314250](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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. This gene is part of a complex transcriptional unit (TAF1/DYT3), wherein some products share exons with TAF1 as well as additional exons downstream.[provided by RefSeq]

Other Designations

OTTHUMP00000024334|TBP-associated factor 1|cell cycle, G1 phase defect|complementation of cell cycle block, G1-to-S|transcription factor TFIID p250 polypeptide

Publication Reference

- [Phosphorylation on Thr-55 by TAF1 mediates degradation of p53: a role for TAF1 in cell G1 progression.](#)
Li HH, Li AG, Sheppard HM, Liu X.
Molecular Cell 2004 Mar; 13(6):867.

Application: IP, WB, Human, HCT-116, U-2 OS cells
- [Taf\(II\) 250 phosphorylates human transcription factor IIA on serine residues important for TBP binding and transcription activity.](#)
Solow S, Salunek M, Ryan R, Lieberman PM.
The Journal of Biological Chemistry 2001 May; 276(19):15886.
- [Structure and function of a human TAFII250 double bromodomain module.](#)
Jacobson RH, Ladurner AG, King DS, Tjian R.
Science 2000 May; 288(5470):1422.

Pathway

- [Basal transcription factors](#)

Disease

- [Alzheimer disease](#)
- [Angina](#)
- [Atherosclerosis](#)
- [Cardiovascular Diseases](#)
- [Coronary Disease](#)
- [Diabetes Complications](#)
- [Genetic Predisposition to Disease](#)

- [Graft Occlusion](#)
- [Hemolytic-Uremic Syndrome](#)
- [Inflammation](#)
- [Intracranial Thrombosis](#)
- [Leukemia](#)
- [Lymphoma](#)
- [Meningococcal Infections](#)
- [Metabolic Syndrome X](#)
- [Myocardial Infarction](#)
- [Neoplasms](#)
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- [Pulmonary Embolism](#)
- [Purpura](#)
- [Thrombosis](#)
- [Vascular Diseases](#)
- [Venous Thrombosis](#)