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Datasheet for ABIN233826
anti-TAF1 antibody (C-Term)

4 Images

1 Publication

Overview

Quantity:	100 µg
Target:	TAF1
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TAF1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

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 of human TAF1.
Isotype:	IgG
Cross-Reactivity:	Mouse (Murine), Rat (Rattus)
Characteristics:	Concentration Definition: by UV absorbance at 280 nm

Target Details

Target:	TAF1
Alternative Name:	TAF1 (TAF1 Products)
Background:	This antibody is designed, produced, and is suitable for Cancer, Immunology and Nuclear

Target Details

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.

Synonyms: Transcription Initiation Factor TFIID Subunit 1, TAF1

Gene ID: 6872, 115942

UniProt: [B1Q2X3](#)

Application Details

Application Notes: This affinity purified antibody has been tested for use in ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 213 kDa in size corresponding to TAF1 protein by western blotting in the appropriate cell lysate or extract.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1.15 mg/mL

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

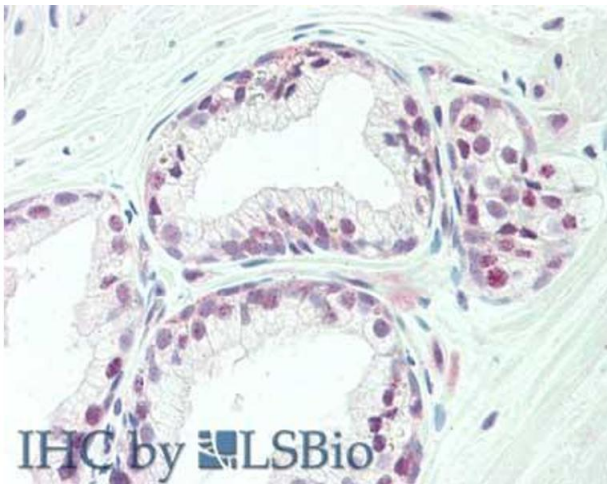
Preservative: Sodium azide

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

Storage: -20 °C

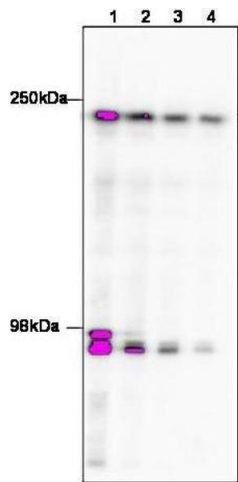
Product cited in: Gui, Xiong, Yang, Li, Huang: "Effects of acupuncture on LIF and IL-12 in rats of implantation failure." in: **American journal of reproductive immunology (New York, N.Y. : 1989)**, Vol. 67, Issue 5, pp. 383-90, (2012) ([PubMed](#)).

Images



Immunohistochemistry

Image 1. Immunohistochemistry of rabbit anti-TAF1 antibody. Tissue: prostate. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Anti-TAF1 at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: TAF-1 as precipitated red signal with hematoxylin purple nuclear counterstain.



Western Blotting

Image 2.

Occupation of TAF1 on c-Fos Promoter after TNF Treatment

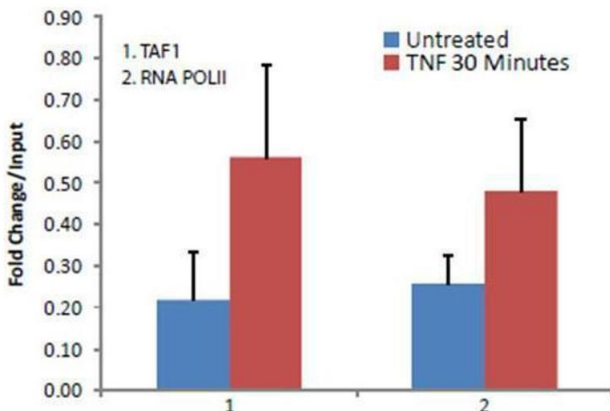


Image 3.

Transcription Initiation Factor TFIID Subunit 1 (TAF1) antibody was used to detect TAF1 in treated and untreated HeLa Cells. HeLa cells were treated with TNF alpha and Chromatin was prepared by EZ Magna Chip Kit (Millipore). CHIP was performed on fos promoters using 5 µg of TAF1 antibody from and an RNA PolII antibody. Image with data provided courtesy of Shiraz Mujtaba, Ph.D., Dept. of Structural & Chemical Biology, Mount Sinai School of

Medicine.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN233826.