

GTF3C4 Rabbit pAb

Catalog # AP97937

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9UKN8
Other Accession	Q9UKN8
Reactivity	Mouse
Predicted	Rat, Human, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	91982
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GTF3C4
Epitope Specificity	151-250/822
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the TFIIC subunit 4 family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	RNA polymerase (pol) III synthesizes tRNA, 5s rRNA, 7SL RNA and U6 snRNA and is overexpressed in many transformed cell lines and tumors in vivo, since cells must duplicate its protein components before division. Therefore, in order to maintain rapid growth, cells must produce a high level of Pol III transcribed RNA, which requires the presence of the TFIIB and TFIIC2 transcription factor complexes. The TFIIC2 complex is composed of five subunits, TFIIC220, TFIIC110, TFIIC102, TFIIC90 and TFIIC63, that are overexpressed in adenovirus transformed cells as well as in malignant cells in vivo, such as ovarian carcinomas. TFIIC2 recruits RNA pol III and TFIIB to promoter elements and may be a key component in the deregulation of malignant cells. The TFIIB complex includes the TATA-binding protein (TBP), TFIIB-related factor 1 (BRF1) and TFIIB", the expression of which are also upregulated in transformed cells. In many carcinomas, the tumor suppressors retinoblastoma (RB) and p53 are inactivated, which affects their ability to bind and inactivate the function of TFIIB.

Additional Information

Gene ID	9329
Other Names	KAT12; TF3C-delta; TFIIC90; TFIIC290; TFIIC90; TFIICDELTA; 5330400C03; TF3C4_HUMAN; GTF3C4; Transcription factor IIC 90 kDa subunit (TFIIC 90 kDa subunit TFIIC90); Transcription factor IIC subunit delta; 2.3.1.48; TF3C4_MOUSE; general transcription factor IIC subunit 4; general transcription factor IIC, polypeptide 4 (90kD); general transcription factor IIC, polypeptide 4, 90kDa

Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	GTF3C4
Function	Essential for RNA polymerase III to make a number of small nuclear and cytoplasmic RNAs, including 5S RNA, tRNA, and adenovirus- associated (VA) RNA of both cellular and viral origin (PubMed: 10523658). Has histone acetyltransferase activity (HAT) with unique specificity for free and nucleosomal H3 (PubMed: 10523658). May cooperate with GTF3C5 in facilitating the recruitment of TFIIB and RNA polymerase through direct interactions with BRF1, POLR3C and POLR3F (PubMed: 10523658). May be localized close to the A box (PubMed: 10523658).
Cellular Location	Nucleus.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.