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Rabbit Anti-GTF2F1 antibody

SL8479R

Product Name:	GTF2F1
Chinese Name:	转录起始因子RAP30抗体
Alias:	TFIIF RAP30; ATP dependent helicase GTF2F2; BTF 4; BTF4; General transcription factor IIF polypeptide 1; General transcription factor IIF polypeptide 1 74 kDa subunit protein; General transcription factor IIF polypeptide 1 74kDa; General transcription factor IIF polypeptide 2 30kDa; General Transcription Factor IIF Polypeptide 2; GTF2F1; GTF2F1 protein; GTF2F2; RAP 30; RAP 74; RAP30; RAP74; TF2F 1; TF2F 2; TF2F1; TF2F2; TFIIF alpha; TFIIF beta; Transcription initiation factor IIF alpha subunit; Transcription Initiation Factor IIF beta Subunit; Transcription initiation factor IIF subunit beta; Transcription initiation factor RAP30; Transcription initiation factor RAP74; T2FB_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Cow,Horse,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	28kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human TFIIF RAP30:101-200/249
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.

PubMed:	PubMed
Product Detail:	In eukaryotic systems, initiation of transcription from protein-coding genes is a complex process requiring RNA polymerase II and broad families of auxiliary transcription factors. Such factors can be divided into two major functional classes: the basal factors that are required for transcription of all Pol II genes, including TFIIA, TFIIB, TFIID, TFIIE, TFIIF and TFIIH; and sequence-specific factors that regulate gene expression. The basal transcription factors and Pol II form a specific multiprotein complex near the transcription start site by interacting with core promotor elements such as the TATA box generally located 25-30 base pairs upstream of the transcription start site. TFIIF, a heteromer composed of a small (RAP 30) and a large (RAP 74) subunit, is required for RNA polymerase II to assemble into a preinitiation complex formed by promotor DNA and the general factors TFIID, IIA and IIB. In addition, TFIIF stimulates transcription elongation by RNA polymerase II. **Function:** The RNA polymerase II transcription factor TFIIF is a heterodimer with 2 subunits: one, referred to as RAP74, of approximately 70 kD and the other, known as RAP30 or GTF2F2, of 30 kD. TFIIF affects RNA polymerase II activity both during the initiation and elongation stages of RNA transcription. TFIIF appears to assist TFIIB in recruiting RNA polymerase II into a preinitiation complex. It also affects RNA transcription by suppressing transient pausing of the polymerase at locations on the DNA template. TFIIF mediates the association of RNA polymerase II with promoter sequences containing transcription factors IID, IIB, and IIA (DAB complex). Cloned human RAP 30 was sufficient for the recruitment of RNA polymerase II to the DAB complex. This ability of RAP 30 to recruit RNA polymerase to a promoter is also a characteristic of sigma factors in prokaryotes. **Subunit:** Heterodimer of an alpha and a beta subunit. Interacts with HTATSF1 and GPBP1 (By similarity). Interacts with URI1. **Subcellular Location:** Nuclear **Similarity:** Belongs to the TFIIF beta subunit family. **SWISS:** P13984 **Gene ID:** 2962 **Database links:** Entrez Gene: 2962 Human

	Entrez Gene: 505702 Cow Entrez Gene: 2963 Human Entrez Gene: 68705 Mouse Entrez Gene: 98053 Mouse Entrez Gene: 316123 Rat Entrez Gene: 81674 Rat Omim: 189968 Human Omim: 189969 Human SwissProt: Q5EA53 Cow SwissProt: P13984 Human SwissProt: P35269 Human SwissProt: Q8BVJ2 Mouse SwissProt: Q8R5B7 Mouse SwissProt: Q01750 Rat SwissProt: Q6AY96 Rat Unigene: 654582 Human Unigene: 68257 Human Unigene: 24632 Mouse Unigene: 98836 Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.