

For Research Use Only

GTF2F1 Polyclonal antibody

Catalog Number: 10093-2-AP

2 Publications



Basic Information

Catalog Number:

10093-2-AP

Size:

150ul, Concentration: 600 ug/ml by Nanodrop and 280 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0133

GenBank Accession Number:

BC000120

GeneID (NCBI):

2962

UNIPROT ID:

P35269

Full Name:

general transcription factor IIF, polypeptide 1, 74kDa

Calculated MW:

58 kDa

Observed MW:

74 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:500-1:2000

Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human

Positive Controls:

WB : K-562 cells,

IP : K-562 cells,

IHC : mouse lung tissue, rat ovary tissue

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

In eukaryotic systems, the initiation of gene transcription involves the ordered assembly of a multiprotein complex on proximal promoter elements, consisting of 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, B, D, E, F and H; 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 promoter 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, acting at an intermediate stage in initiation complex formation, binds directly to RNA polymerase II in solution and decrease the affinity of RNA polymerase II for nonspecific DNA. In addition, TFIIF stimulates transcription elongation by RNA polymerase II.

Notable Publications

Author	Pubmed ID	Journal	Application
Xinxin Wang	35476980	Cell Rep	WB
Xizi Chen	38127763	Science	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

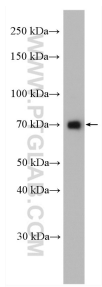
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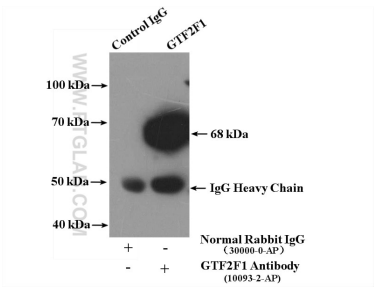
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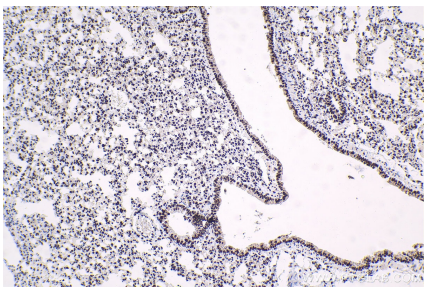
Selected Validation Data



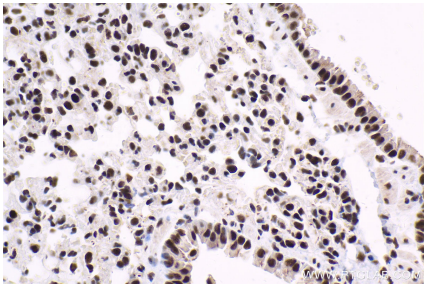
K-562 cells were subjected to SDS PAGE followed by western blot with 10093-2-AP (GTF2F1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-GTF2F1 (IP:10093-2-AP, 4ug; Detection:10093-2-AP 1:300) with K-562 cells lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 10093-2-AP (GTF2F1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 10093-2-AP (GTF2F1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).