

For Research Use Only

# TFII I Polyclonal antibody

Catalog Number:10499-1-AP

3 Publications



## Basic Information

|  |   |  |
|--|---|--|
| <b>Catalog Number:</b><br>10499-1-AP   | <b>GenBank Accession Number:</b><br>BC004472            | <b>Purification Method:</b><br>Antigen affinity purification |
| <b>Size:</b><br>150ul , Concentration: 500 ug/ml by Nanodrop and 240 ug/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>2969                           | <b>Recommended Dilutions:</b><br>WB 1:1000-1:8000            |
| <b>Source:</b><br>Rabbit   | <b>UNIPROT ID:</b><br>P78347                            | <b>IHC 1:250-1:1000</b>                                      |
| <b>Isotype:</b><br>IgG   | <b>Full Name:</b><br>general transcription factor II, i | <b>IF/ICC 1:50-1:500</b>                                     |
| <b>Immunogen Catalog Number:</b><br>AG0773   | <b>Calculated MW:</b><br>112 kDa                        |  |
|  | <b>Observed MW:</b><br>135 kDa                          |  |

## Applications

|  |   |
|--|---|
| <b>Tested Applications:</b><br>WB, IHC, IF/ICC, ELISA  | <b>Positive Controls:</b><br>WB : HEK-293 cells, HeLa cells, Jurkat cells   |
| <b>Cited Applications:</b><br>WB, IF   | <b>IHC :</b> human thyroid cancer tissue, human colon cancer tissue, human urothelial carcinoma tissue, mouse small intestine tissue, rat kidney tissue, rat small intestine tissue |
| <b>Species Specificity:</b><br>human, mouse, rat   | <b>IF/ICC :</b> HeLa cells,   |
| <b>Cited Species:</b><br>human, mouse  |   |
| <b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b> |   |

## Background Information

The GTF2I gene encodes a transcription factor. It negatively regulates agonist-induced calcium entry into cells by interfering with expression of the cation channel TRPC3 at the plasma membrane [PMID: 17023658]. As a transcription factor and/or as a regulator of intracellular calcium levels, GTF2I may play a role in the molecular basis of anxiety[PMID: 22578324]. It interacts with the basal transcription machinery by coordinating the formation of a multiprotein complex at the C-FOS promoter, and linking specific signal responsive activator complexes. Required for the formation of functional ARID3A DNA-binding complexes and for activation of immunoglobulin heavy-chain transcription upon B-lymphocyte activation [PMID: 16738337].

## Notable Publications

| Author      | Pubmed ID | Journal             | Application |
|-------------|-----------|---------------------|-------------|
| Jing Chen   | 34650978  | Front Cell Dev Biol | WB          |
| Qiang Wang  | 35978186  | Nature              | WB          |
| Terry R Suk | 37009224  | iScience            | IF          |

## Storage

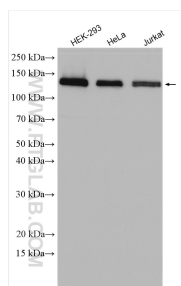
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

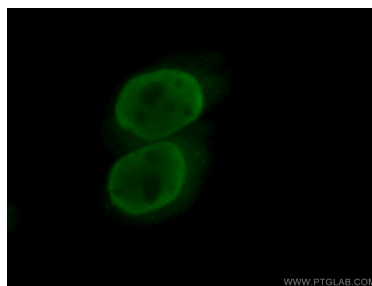
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

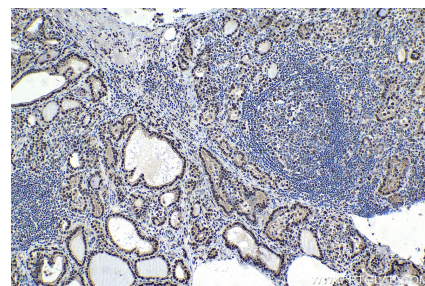
## Selected Validation Data



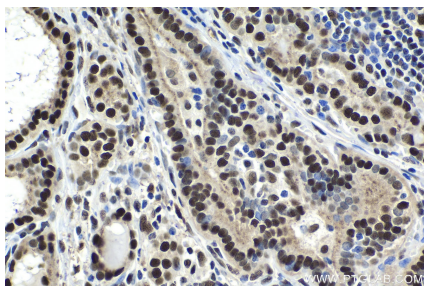
Various lysates were subjected to SDS PAGE followed by western blot with 10499-1-AP (TFII I antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 10499-1-AP (TFII I antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



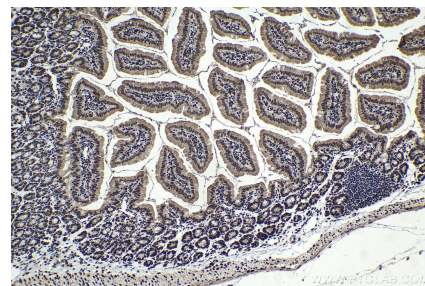
Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 10499-1-AP (TFII I antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



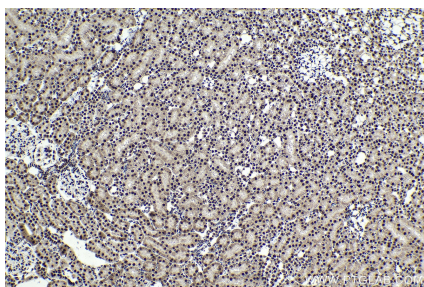
Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 10499-1-AP (TFII I antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



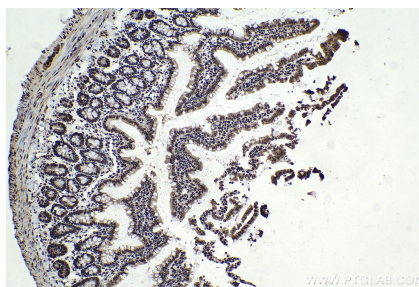
Immunohistochemical analysis of paraffin-embedded human urothelial carcinoma tissue slide using 10499-1-AP (TFII I antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue slide using 10499-1-AP (TFII I antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 10499-1-AP (TFII I antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat small intestine tissue slide using 10499-1-AP (TFII I antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).