

# T Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP20187A

## Product Information

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Application	WB, IF, E
Primary Accession	<a href="#">O15178</a>
Other Accession	<a href="#">P20293</a> , <a href="#">P79777</a> , <a href="#">NP_003172.1</a>
Reactivity	Human, Mouse
Predicted	Chicken, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB41833
Calculated MW	47443
Antigen Region	15-43

## Additional Information

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Gene ID	6862
Other Names	Brachyury protein, Protein T, T
Target/Specificity	This T antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 15-43 amino acids from the N-terminal region of human T.
Dilution	WB~~1:1000 IF~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	T Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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Name	TBXT ( <a href="#">HGNC:11515</a> )
Synonyms	T
Function	Involved in the transcriptional regulation of genes required for mesoderm

formation and differentiation. Binds to a palindromic T site 5'-TTCACACCTAGGTGTGAA-3' DNA sequence and activates gene transcription when bound to such a site.

**Cellular Location**

Nucleus

**Tissue Location**

Detected in testis, but not in other, normal tissues. Detected in lung tumors (at protein level)

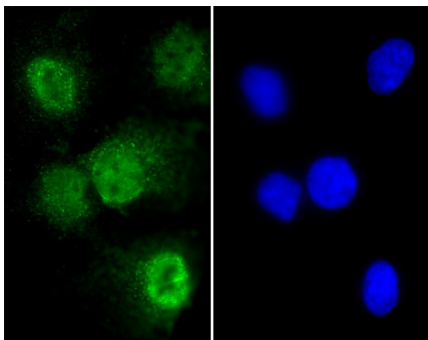
## Background

The protein encoded by this gene is an embryonic nuclear transcription factor that binds to a specific DNA element, the palindromic T-site. It binds through a region in its N-terminus, called the T-box, and effects transcription of genes required for mesoderm formation and differentiation. The protein is localized to notochord-derived cells.

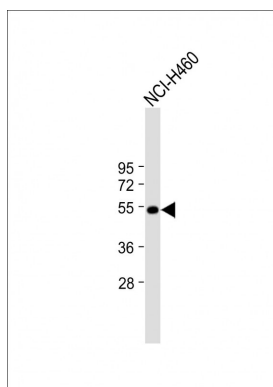
## References

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Docherty, S.J., et al. BMC Genet. 11, 61 (2010) :  
Yang, X.R., et al. Nat. Genet. 41(11):1176-1178(2009)  
Oakley, G.J., et al. Mod. Pathol. 21(12):1461-1469(2008)  
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## Images



Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0. 1% Triton X-100 permeabilized A549 cells labeling TBXT with AP20187a at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-Rabbit IgG (OH191631) secondary antibody at 1/200 dilution (green). Immunofluorescence image showing nucleus, cytoplasm weakly staining on A549 cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin (1186255) at 1/500 dilution (red). The nuclear counter stain is DAPI (blue).



Anti-T Antibody (N-term) at 1:2000 dilution + NCI-H460 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 47 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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