

**T Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP20187A**

**Specification**

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**T Antibody (N-term) - Product Information**

Application	IF, WB,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
Predicted	Chicken, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	15-43

**T Antibody (N-term) - Additional Information**

**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**

IF~~1:25

WB~~1:2000

**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.

**T Antibody (N-term) - Protein Information**

**Name** TBXT ([HGNC:11515](#))

**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**

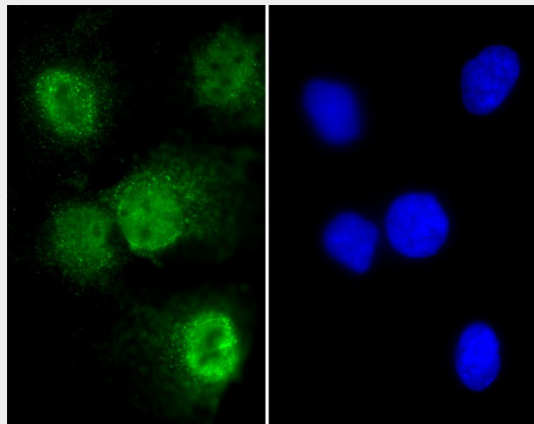
Detected in testis, but not in other, normal tissues. Detected in lung tumors (at protein level)

**T Antibody (N-term) - Protocols**

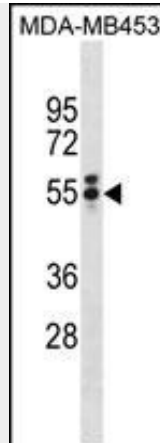
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

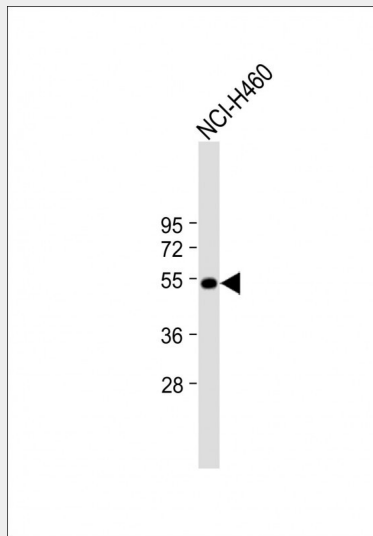
**T Antibody (N-term) - Images**



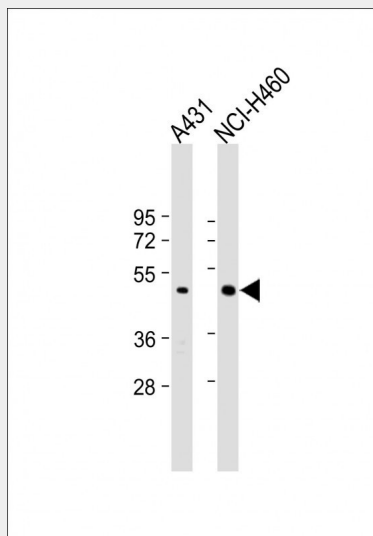
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized A549 cells labeling TBXT with AP20187a at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-Rabbit IgG (OH191631) secondary antibody at 1/200 dilution (green). Immunofluorescence image showing nucleus, 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).



T Antibody (N-term) (Cat. #AP20187a) western blot analysis in MDA-MB453 cell line lysates (35ug/lane). This demonstrates the T antibody detected the T protein (arrow).



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.



All lanes : Anti-T Antibody (N-term) at 1:2000 dilution Lane 1: A431 whole cell lysate Lane 2:

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.

#### **T Antibody (N-term) - 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.

#### **T Antibody (N-term) - References**

Jambhekar, N.A., et al. Arch. Pathol. Lab. Med. 134(8):1181-1187(2010)  
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)  
Bondue, A., et al. Cell Stem Cell 3(1):69-84(2008)