

T Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1777a

Specification

T Antibody - Product Information

| | |
|-------------------|------------------------|
| Application | E, WB, FC, IHC |
| Primary Accession | O15178 |
| Reactivity | Human |
| Host | Mouse |
| Clonality | Monoclonal |
| Isotype | IgG1 |
| Calculated MW | 47.4kDa KDa |

Description

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.

Immunogen

Purified recombinant fragment of human T (AA: 257-309) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

T Antibody - Additional Information

Gene ID 6862

Other Names

Brachyury protein, Protein T, T

Dilution

E~~1/10000
WB~~1/500 - 1/2000
FC~~1/200 - 1/400
IHC~~1/200 - 1/1000

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

T Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

T Antibody - 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

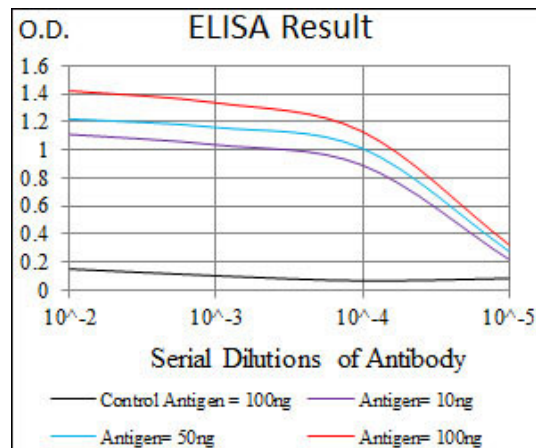
Tissue Location

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

T Antibody - 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](#)



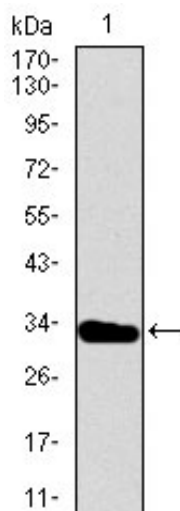


Figure 1: Western blot analysis using T mAb against human T recombinant protein. (Expected MW is 31.2 kDa)

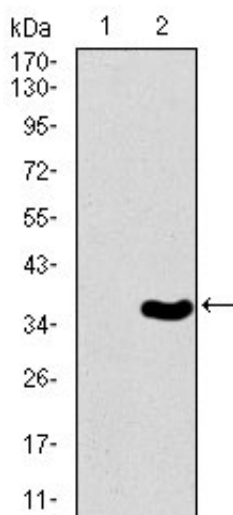


Figure 2: Western blot analysis using T mAb against HEK293 (1) and T (AA: 257-309)-hIgGFc transfected HEK293 (2) cell lysate.

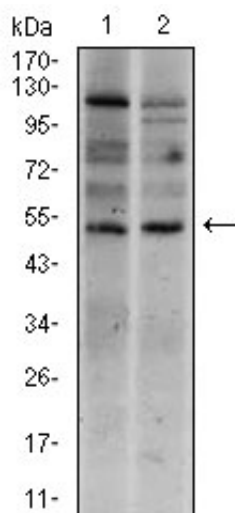


Figure 3: Western blot analysis using T mouse mAb against Raji (1), and Jurkat (2) cell lysate.

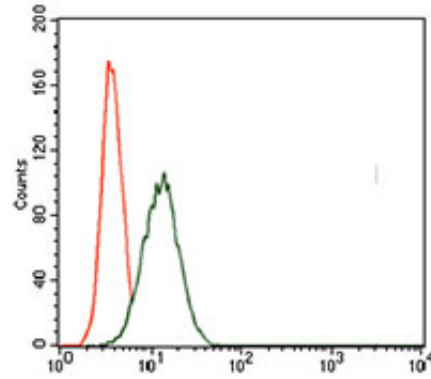


Figure 4: Flow cytometric analysis of HeLa cells using T mouse mAb (green) and negative control (red).

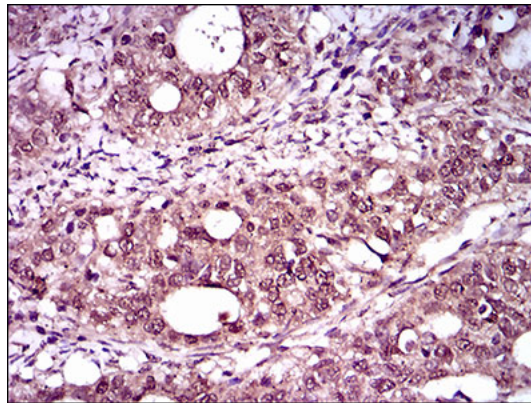


Figure 5: Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using T mouse mAb with DAB staining.

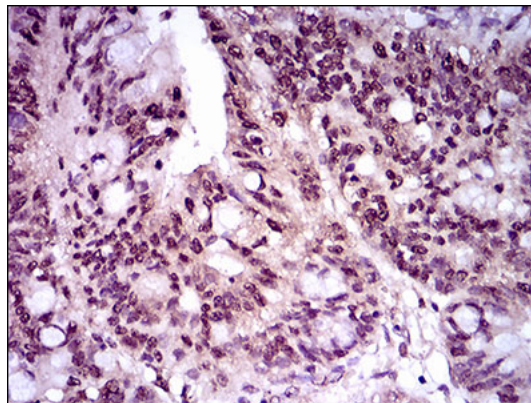


Figure 6: Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using T mouse mAb with DAB staining.

T Antibody - References

1. Am J Surg Pathol. 2008 Apr;32(4):572-80.
2. J Clin Neurosci. 2011 Jan;18(1):96-9.