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T Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1777a

Product Information

Application	WB, IHC, FC, E
Primary Accession	O15178
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	1H9A2
Isotype	IgG1
Calculated MW	47443
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

Additional Information

Gene ID	6862
Other Names	Brachyury protein, Protein T, T
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 E~~1/10000
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.

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)

References

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

Images

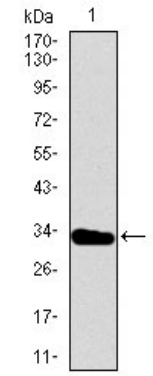


Figure 1: Western blot analysis using T mAb against human T recombinant protein. (Expected MW is 31.2 kDa)

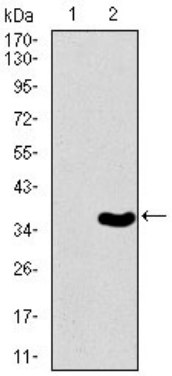


Figure 2: Western blot analysis using T mAb against HEK293 (1) and T (AA: 257-309)-hIgGFc transfected HEK293 (2) cell lysate.

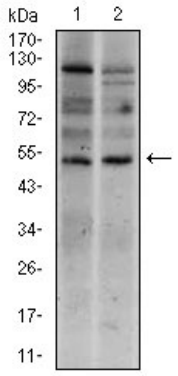
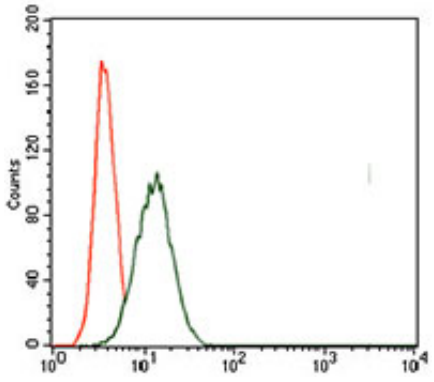


Figure 3: Western blot analysis using T mouse mAb against Raji (1), and Jurkat (2) cell lysate.

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



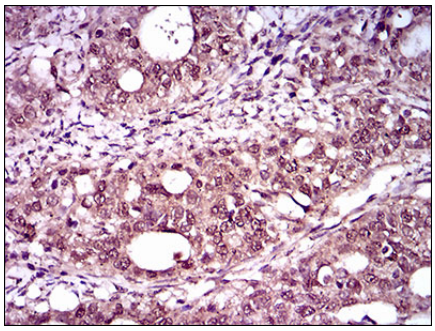


Figure 5: Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using T mouse mAb with DAB staining.

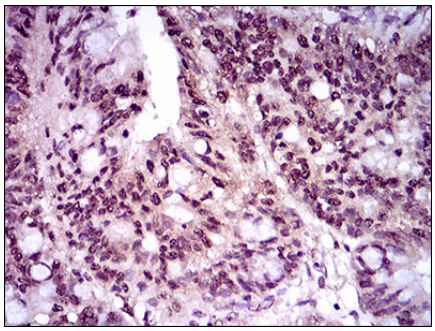


Figure 6: Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using T mouse mAb with DAB staining.