

## Mouse anti-Thyroid Transcription Factor-1, clone SPT24 (monoclonal)

Clone no. SPT24

MONXtra

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Product name	Mouse anti-Thyroid Transcription Factor-1, clone SPT24 (monoclonal)
Host	Mouse
Applications	IHC-P (1:200)
Species reactivity	human
Conjugate	-
Immunogen	Prokaryotic recombinant protein corresponding to a 123 amino acid fragment of the N-terminal region of the TTF-1 molecule.
Isotype	IgG1
Clonality	Monoclonal
Clone number	SPT24
Size	1 ml
Concentration	Greater than or equal to 108 mg/L
Format	-
Storage buffer	Tissue culture supernatant with sodium azide
Storage until expiry date	2-8°C

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES

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**Additional info**

Thyroid Transcription Factor-1 (TTF-1) is a member of the homeodomain transcription factor family and plays a role in regulating genes expressed within the thyroid, lung and brain. These include thyroglobulin, thyroid peroxidase, Clara cell secretory protein and surfactant proteins. Human TTF-1 (38 kD) is a single polypeptide of 371 amino acids sharing 98% homology with the equivalent rat and mouse proteins. TTF-1 functions by binding to specific recognition sites in a manner that may be regulated by both the redox and phosphorylation status of the protein. In addition to its role as a tissue-specific transcriptional activator in adult organs, TTF-1 may also function in organogenesis. Gene targeting studies have shown TTF-1 to be essential for the proper development of the thyroid and lungs and abnormal expression may underline a number of congenital abnormalities.

**References**

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2. Klingen TA et al. Diagnostic Pathology. 2013; 8: 80-86
3. Berghmans T et al. Lung Cancer. 2006; 52(2): 219-224
4. Penman D et al. Journal of Clinical Pathology. 2006; 59:663-664.
5. Comperat E et al. Modern Pathology. 2005; 18(10):1371-1376

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