

## Thyroid Transcription Factor, TTF-1 clone SPT24

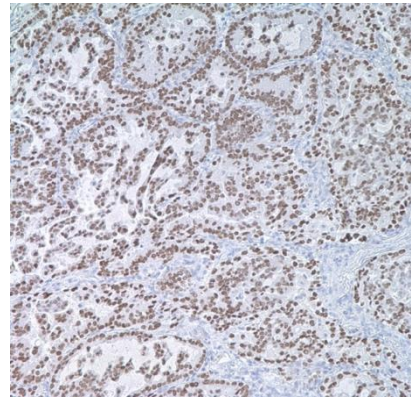
### Instructions For Use

#### Specification:

TTF-1 (Thyroid transcription factor-1) is a member of the NKx2 family of homeodomain transcription factors. It is expressed in epithelial cells of the thyroid gland and the lung. Nuclei from liver, stomach, pancreas, small intestine, colon, kidney, breast, skin, testes, pituitary, prostate, and adrenal glands are unreactive. TTF-1 is detected in primary lung adenocarcinomas and small cell carcinomas and is absent in colon and breast carcinomas. Staining with TTF-1 antibody is useful for distinguishing between tumors of lung and non-lung origin.

#### Availability:

Catalog No.	Contents	Volume
ILM105846-C01	TTF-1	0,1 ml concentrate
ILM105846-C05	TTF-1	0,5 ml concentrate
ILM105846-C1	TTF-1	1,0 ml concentrate



**Intended use:** For Research Use Only

**Reactivity:** Human

**Clone:** SPT24

**Species of origin:** Mouse

**Isotype:** IgG<sub>1</sub>,k

**Control Tissue:** Normal thyroid or lung

**Staining:** Nuclear

**Immunogen:** Prokaryotic recombinant protein corresponding to a 123 amino acid fragment of the N-terminal region of the TTF-1 molecule

**Presentation:** It is a liquid tissue culture supernatant containing 15mM sodium azide as a preservative

#### Application and suggested dilutions:

Pretreatment: Heat induced epitope retrieval in 50 mM Tris buffer pH9.5, for 20 minutes is required for IHC staining on formalin-fixed, paraffin embedded tissue sections.

- Immunohistochemical staining of formalin-fixed, paraffin embedded tissue section (dilution up to 1:400-1:800)

The optimal dilution for a specific application should be determined by the investigator.

**Note:** Dilution of the antibody in 10% normal goat serum followed by a goat anti-mouse secondary antibody-based detection is recommended.

**Storage & Stability:** Store at 2-8 °C. Do not use after expiration date printed on the vial. For long term storage, aliquot and freeze.

**Reference:**

- 1) National Committee for Clinical Laboratory Standards. Protection of laboratory worker from infectious diseases transmitted by blood and tissue; proposed guideline. Villanova, P.A. 1991; 7(9).
- 2) Battifora H. Diagnostic uses of antibodies to keratins: a review and immunohistochemicals comparison of seven monoclonal and three polyclonal antibodies. Progress in Surgical Pathology. 6:1-15. eds Fenoglio-Preiser C, Wolff CM, Rilke F. Field & Wood, Inc Philadelphia
- 3) Nadji M, Morales AR. Immunoperoxidase, part I: the techniques and pitfalls. Laboratory Medicine. 1983; 14:767
- 4) Omata M, Liew CT, Ashcavai M, Peters RL. Nonimmunologic binding of horseradish peroxidase to hepatitis B surface antigen: a possible source of error in immunohistochemistry. American Journal of Clinical Pathology. 1980; 73:626.
- 5) Bingle CD. Thyroid transcription factor-1. International Journal of Biochemistry and Cell Biology. 1997; 29(12):1471-1473