

## TTF-1 Antibody

### Datasheet

For Research Use Only

Description	Catalog No.	Size
TTF-1 Concentrate	FP-A071-01	0.1 ml
TTF-1 Concentrate	FP-A071-05	1 ml
TTF-1 Predilute	FP-A071-70	7 ml

### Description

Thyroid Transcription Factor 1 (TTF-1) is present in diencephalon, lung, and thyroid. Anti-TTF-1 stains thyroid and thyroid-derived tumours, and is therefore used for distinguishing lung adenocarcinoma from germ cell tumours, malignant mesothelioma, and metastatic carcinomas from organs other than the thyroid. It is also useful for distinguishing small cell lung carcinoma from lymphoid infiltrates, and pulmonary from non-pulmonary adenocarcinomas in malignant effusions. The ability to distinguish between pulmonary and non-pulmonary adenocarcinomas is particularly useful in identifying tumours that have metastasized to the brain.

### Specifications

Clone	IHC414
Source	Mouse Monoclonal
Applications	IHC (P)
Formulation	Tris Buffer, pH 7.3 - 7.7, with 1% BSA and <0.1% Sodium Azide

### IHC Procedure\*

Positive Control Tissue	Lung Adenocarcinoma
Concetrated Dilution	1:50 – 1:200
Pretreatment	Perform heat-induced epitope retrieval (HIER) at pH 9 for 10 to 30 minutes
Incubation Time and Temp	10 to 30 minutes at room temperature
Detection	Refer to the detection system manual

\*Result should confirmed by an established diagnostic procedure.

### Result

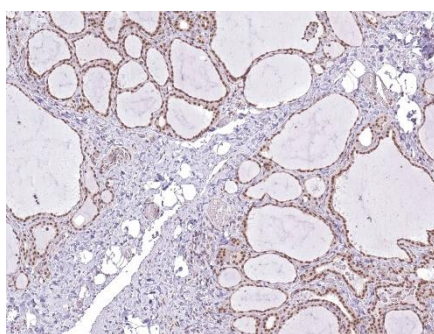


Figure. TTF-1 on Thyroid Gland

## Storage and Handling

Must store the reagent at 2-8 °C. Do not freeze. Do not use the reagent after expiration date on vial. To ensure proper stability and delivery of the antibody after each run, replace the cap and immediately place the bottle in a refrigerator in an upright position. Positive and negative controls should be simultaneously run with unknown specimens, as there are no conclusive characteristics to suggest instability of the antibody.

## Precautions

**The product is for research use only.** Do not use for diagnosis purpose. Ensure proper handling procedures are used with all reagents. Always wear laboratory coats, disposable gloves, and other appropriate laboratory equipment when handling reagents. Do not ingest reagents, and avoid contact with eyes and mucous membranes. Wash eyes with copious amounts of water if contact occurs.

## References

1. **Bejarano PA.** “Surfactant proteins and thyroid transcription factor-1 in pulmonary and breast carcinomas.” *Mod Pathol.* 1996 Apr;9(4):445-52.
2. **Holzinger A, et al.** “Monoclonal antibody to thyroid transcription factor-1: production, characterization, and usefulness in tumor diagnosis.” *Hybridoma.* 1996 Feb;15(1):49-53.
3. **Saad RS, et al.** “Utility of immunohistochemistry in separating thymic neoplasms from germ cell tumors and metastatic lung cancer involving the anterior mediastinum.” *Appl Immunohistochem Mol Morphol.* 2003 Jun;11(2):107-12.
4. **Di Loreto C, et al.** “TTF-1 protein expression in pleural malignant mesotheliomas and adenocarcinomas of the lung.” *Cancer Lett.* 1998 Feb 13;124(1):73-8.
5. **Abutaily AS, et al.** “Immunohistochemistry in the distinction between malignant mesothelioma and pulmonary adenocarcinoma: a critical evaluation of new antibodies.” *J Clin Pathol.* 2002 Sep;55(9):662-8.
6. **Di Loreto C, et al.** “Immunocytochemical expression of tissue specific transcription factor-1 in lung carcinoma.” *J Clin Pathol.* 1997 Jan;50(1):30-2.
7. **Kato R, et al.** “Thyroid transcription factor-1 in normal, hyperplastic, and neoplastic follicular thyroid cells examined by immunohistochemistry and nonradioactive in situ hybridization.” *Mod Pathol.* 2000 May;13(5):570-6.
8. **Jang KY, et al.** “Utility of thyroid transcription factor-1 and cytokeratin 7 and 20 immunostaining in the identification of origin in malignant effusions.” *Anal Quant Cytol Histol.* 2001 Dec;23(6):400-4.
9. **Srodon M, et al.** “Immunohistochemical staining for thyroid transcription factor-1: a helpful aid in discerning primary site of tumor origin in patients with brain metastases.” *Hum Pathol.* 2002 Jun;33(6):642-5.



## Technical Support

Contact FemtoPath Technical Support at +886232338585 or email to [femtopath@hongjing.com.tw](mailto:femtopath@hongjing.com.tw) for questions regarding this product.