

TTF-1 (Thyroid Transcription Factor)

Catalog # 10122.05 or .10 (0,5 ml or 1,0 ml, concentrated)

Catalog # 10122.50 (5 ml, ready to use format)

INTENDED USE

- **In Vitro:** This product is intended for qualitative immunohistochemistry on normal and neoplastic, formalin fixed, paraffin embedded tissue sections, to be analyzed by light microscopy.
- **Description:** Anti -TTF-1 is useful in differentiating primary adenocarcinoma of the lung from metastatic carcinomas from the breast, mediastinal germ cell tumors and malignant mesothelioma. It can also be used to differentiate Small cell lung carcinoma from lymphoid infiltrates. Loss of TTF-1 expression in non -small cell lung carcinoma has been associated with aggressive behavior of such neoplasms.
- **Expected Staining Pattern:** Nuclear
- **Positive Control:** Lung adenocarcinoma, thyroid

MATERIALS PROVIDED

- **TTF-1 specific mouse monoclonal antibody**
#10122: purified supernatant, diluted in tris buffered saline, pH 7.3-7.7 with BSA and 0.09% sodium azide.
- **Antibody Concentration:** Not known
- **Host:** Mouse
- **Epitope:** Not determined
- **Species Reactivity:** Human
- **Clone:** 8G7G3/1
- **Ig Isotype:** IgG1
- **Immunogen:** Not determined.
- **Sterility:** This product is not sterile.
- **Reference:**

1. Katoh R et al. Mod Pathol. 2000 May;13(5):570-6
2. Jang KY et al. Anal Quant Cytol Histol. 2001 Dec;23(6):400-4
3. Srodon M, Westra WH. Hum Pathol. 2002 Jun;33(6):642-5
4. Abutaily AS et al. J Clin Pathol. 2002 Sep;55(9):662-8
5. Bejarano PA, Mousavi F. Arch Pathol Lab Med. 2003 Feb;127(2):193-5
6. Saad RS et al. Appl Immunohistochem Mol Morphol. 2003 Jun;11(2):107-12
7. Tan D et al. Hum Pathol. 2003jun;34(6):597-604

MATERIALS REQUIRED, BUT NOT PROVIDED

- Detection system
- Chromogen/substrate system

METHODS AND PROCEDURES

- **Tissue Section Pretreatment:** Staining of formalin fixed tissue sections requires treating in boiling 10mM citrate buffer, pH 6.0 for 10-20 minutes.
- **Recommended Pretreatment Kit:** HISTOLS®-Pre-Treatment IHC Kit (cat# 30016), containing the reagents below:
HISTOLS®-Citrate Buffer (cat#30010)
HISTOLS®-Peroxidase Blocking Solution (cat# 30013)
HISTOLS®-BBPS (Background Blocking Protein Solution) (cat# 30012)
- **Dilution of Concentrated Antibody:** 1:100-1:500 in antibody diluent. The optimal dilution for a specific application should be determined by the investigator.
- **Primary Antibody Incubation Time:** 60 minutes at RT.
- **Recommended Detection System:** HISTOLS®-MR (anti-mouse & rabbit Ig) (cat# 30011)
- **Visualization:** To detect antibody binding sites, follow the instructions provided with the visualization system.

STORAGE AND STABILITY

This product contains sodium azide and is stable when stored at 2-8°C. Do not use after expiration date indicated on label of the product. If reagent is not stored as recommended, performance must be validated by the user.

For Research Use Only!