The Allina Health Immunohistochemistry laboratory is now offering the p40-TTF1 cocktail by IHC.

Test name: p40-TTF1 cocktail by IHC
Test #: 12376 (Technical only) or 12379 (Technical with interpretation)
Notification date: January 10, 2018
Effective date: Immediately

The Allina Health Immunohistochemistry laboratory is now offering the p40-TTF1 cocktail by IHC.

Test name: p40-TTF1 cocktail by IHC
Test number: 12376 - Technical only;
12379 - Technical & Interpretation
Collect: Formalin-fixed, paraffin embedded (FFPE) tissue block.
Container: FFPE tissue block
Processing: Submit processed tissue block
Transport/Stability: Ambient (preferred)
Alternate Names: Cocktail, p40, TTF-1, IHC, LAB12376, LAB12379
Performing Lab: AHL - Immunohistochemistry
Days Set Up: Mo - Fr
Expected TAT: 1 - 2 days
Ref. Ranges: If requested, an interpretive report will be provided

Specifications:
- TTF-1 reacts with a transcription factor expressed in thyroid (follicular cells), lung (type II cells, Clara cells), and diencephalon.
- P40 is one of 10 p63 isoforms which is highly specific for squamous differentiation.

Staining pattern:
- Positive TTF-1 staining: Brown nuclear staining
- Positive P40 staining: Red nuclear staining
Applications:

- This cocktail is intended to be used to assist in differentiating lung adenocarcinomas and lung squamous cell carcinomas. This TTF-1/P40 cocktail has a reported sensitivity of 77% and a specificity of 100% for lung adenocarcinomas. This TTF-1/P40 cocktail has a reported sensitivity of 93% and a specificity of 92% for lung squamous cell carcinomas.

- Other tumors reported to be positive for TTF-1 include neuroendocrine tumors (pulmonary and non-pulmonary origin), thyroid neoplasms, a subset of endometrial and cervical neoplasms, papillary nasopharyngeal carcinomas, and colorectal adenocarcinoma. Tumors which have been reported to rarely stain for TTF-1 in a subset of tumor cells include: cholangiocarcinoma, ovarian, gastric/esophageal, pancreatic ductal, urothelial, hepatocellular, salivary gland neoplasms including adenoid cystic carcinoma, and adrenal cortical carcinoma.

- Other tumors reported to be positive for the P40 clone used in this cocktail include bladder, breast, and prostate.

References:


Method: Immunochemistry staining
Microscopic examination

CPT Codes: 88342 - 1st stain
88341 - each additional stain

The Immunohistochemistry request forms are being updated to include this new stain offering.