



# PRODUCT-SPECIFIC PROTOCOLS

IHC (15440-1-AP)

Sample type	Sample preparation	Antigen Retrieval	Blocking buffer	Primary antibody dilution	Incubation time	Signal detection
human lung cancer tissue	Paraffin-embedded	Tris-EDTA buffer (pH 9.0)	3% BSA in TBS	1:200	1.5 h at room temp	Reagents for color development

## **PROTOCOL**

#### Deparaffinize and rehydrate

- 1. Deparaffinize slides in 2 baths of xylene for 20 min each.
- 2. Rehydrate slides by sequential incubation with 100%, 95%, 80%, and 60% ethanol. 5 min for each bath.
- 3. Immerse slides with distilled water 3 times for 1 min each.

#### Antigen Retrieval (check table above)

- 1. Transfer slides to a container and cover with antigen retrieval solution according to the table above.
- 2. Heat slides in a microwave on medium power for 10 min.
- 3. Allow slides to cool in the buffer for 35 min.

### Incubation with Primary Antibody and Signal Detection

- 1. Rinse slides 3 times with 1X TBS for 1 min each.
- Incubate slides with 3% H2O2 solution (diluted in distilled water) for 10 min to quench endogenous peroxidase activity at room temperature.
- 3. Rinse slides 3 times with 1XTBS for 1 min each.
- 4. Block the slides at room temperature for 1 h in Blocking buffer.
- 5. Incubate slides with primary antibody (diluted in dilution buffer) for 1.5 h at room temperature.

- 6. Rinse slides 3 times with 1X TBST for 1 min each.
- Incubate slides with sufficient peroxidase labeled polymer secondary antibody for 30 min at room temperature.
- 8. Rinse slides 3 times with 1X TBS for 1 min each.
- Incubate slides with enough DAB for 2-5 min at room temperature till a brown color develops.
- 10. Rinse slides 3 times with distilled water for 1 min each.
- 11. Incubate slides in a bath of hematoxylin at room temperature to stain the nuclei for 3 min.
- 12. Rinse slides 3 times with 1X TBS for 1 min each.
- 13. Immerse slides in distilled water for 5 min.
- 14. Immerse slides sequentially into 60%, 80%, 90%, and 100% ethanol bath for 5 min each.
- 15. Immerse slides in xylene bath for 5 min, then immerse in another fresh xylene for 5 min.
- Mount the slides with a small drop of neutral balsam and add a coverslip. Airdry slides in the hood.
- 17. Examine slides under a microscope.