Cytokeratin 5 & 6 (D5 & 16B4)

For Research Use Only. Not For Use in Diagnostic Procedures. (RUO)

Instructions for use

Presentation
Anti-Cytokeratin 5 & 6 antibody is a cocktail of two mouse monoclonals from ascites diluted in phosphate buffered saline, pH 7.4, with protein base, and preserved with sodium azide.

Applications
Anti-CK 5/6 positivity is seen in nearly 100% of malignant mesotheliomas and in nearly 0% of lung adenocarcinomas. Anti-CK 5/6 positivity can be seen in undifferentiated large cell carcinoma as well as squamous carcinoma, and has been useful in recognizing spindle cell squamous cell carcinoma of the skin. Less than 10% of carcinomas of the breast, colon, and prostate stain positively for this marker. Anti-CK 5/6 has also been used successfully as a myoepithelial cell marker in the prostate and breast to determine malignancy.

Reactivity
Paraffin, Frozen

Controls
Mesothelioma, Prostate

Visualization
Cytoplasmic

Stability
Up to 36 months; store at 2-8°C

Isotype
IgG

Antibody color does not affect performance.

Preparation and Pretreatment
1. Cut 3-4 µm section of formalin-fixed paraffin-embedded tissue and place on positively charged slides; dry overnight at 58°C.
2. Deparaffinize, rehydrate, and epitope retrieve; the preferred method is the use of Heat Induced Epitope Retrieval (HIER) techniques using Cell Marque's Trilogy™ in conjunction with a pressure cooker. The preferred method allows for simultaneous deparaffinization, rehydration, and epitope retrieval. Upon completion, rinse with 5 changes of distilled or deionized water.
3. If using HRP detection system, place slides in peroxide block for 10 minutes; rinse. If using AP detection system, omit this step.

Recommended Protocol for Staining at Room Temperature Using CytoScan™ BSA Detection System
1. Apply the antibody and incubate for 30 - 60 minutes; rinse.
2. Apply the link and incubate for 10 minutes; rinse.
3. Apply the label and incubate for 10 minutes; rinse.
4. Apply ample amount of chromogen and incubate for 1 to 10 minutes; rinse.
5. Dehydrate and coverslip.

Recommended Protocol for Staining at Room Temperature Using PolyScan™ Polymer Detection System
1. Apply the antibody and incubate for 30 - 60 minutes; rinse.
2. Apply the PolyScan™ Polymer Rabbit / Mouse Detection System for 30 min; rinse.
3. Apply ample amount of chromogen and incubate for 1 to 10 minutes; rinse.
4. Dehydrate and coverslip.

References

Material Safety Data Sheet available upon request.