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Part 3650 Revised January 2020

CK5/14 + p63 + P504S, Multi-Tissue Control Slides – Technical Memo

Part 3650B 98 Slide/Set

PRODUCT SPECIFICATIONS:

Tissue: P504S and CK5/14 positive staining prostate, p63 positive staining prostate and negative staining myometrium.

Fixation: Formalin 10%, Phosphate Buffered (Part 1090).

Section/Glass: Paraffin sections cut at 4 microns on Superfrost™ Plus slides.

Quality Control Stain: CK5/14 + p63 + P504S quality control stained slide(s) included.

Reactivity: Guaranteed product specific reactivity for six months from date of receipt. Revalidate after six months to verify continued reactivity.

Storage: 15-30°C in a light deprived and humidity controlled environment.

Part 3650A

10 Slide/Set

Intended Use: To verify histological techniques and reagent reactivity.

Before using unstained control slides, review the enclosed stained slide(s) to ensure that this tissue source is acceptable for testing needs.

APPLICATION:

Newcomer Supply CK5/14 + p63 + P504S, Multi-Tissue Control Slides provide a useful combination of markers helpful in diagnosing prostatic intraepithelial neoplasia (PIN).

NEWCOMER SUPPLY VALIDATION PROCEDURE:

- Heat dry sections in oven according to your laboratory protocol. 1.
- 2. Deparaffinize sections thoroughly in three changes of xylene, 3 minutes each. Hydrate through two changes each of 100% and 95% ethyl alcohols, 10 dips each. Wash well with distilled water. See Procedure Note #1. a.
- 3. Proceed, if necessary, with an epitope/antigen retrieval technique approved for use in your laboratory.
- Rinse in distilled water; tap off excess water.
- Circle sections with Pap Pen Liquid Blocker (Part 6505, 6506 or 5. 6507) to reduce reagent usage and ensure tissue coverage.
- Block endogenous peroxidase with freshly made 3% Hydrogen 6. Peroxide. Incubate for 5 minutes. а.
 - See Procedure Note #2.
 - Wash slides gently in distilled water. Rinse in two changes of Tris Buffered Saline.
 - a. See Procedure Note #3.
- Tap off excess buffer; apply CK5/14 + p63 + P504S multiplex 8. primary antibody. Incubate at room temperature for 30 minutes.
- Rinse slides in two changes of buffer. 9
- 10. Tap off excess buffer; apply MACH 2 Double Stain 2 Polymer. Incubate for 30 minutes.
- 11. Rinse slides in two changes of buffer.
- Prepare required quantity of DAB substrate/chromogen. 12.
- Tap off excess buffer; apply DAB. Incubate for 5 minutes. 13.
- Rinse slides in two changes of buffer. 14.
- Prepare required quantity of Vulcan Fast Red Chromogen. 15.
- Tap off excess buffer; apply Vulcan Fast Red. Incubate for 10 16. minutes.
- 17. Rinse slides in four changes of distilled water.
- Counterstain lightly with Hematoxylin Stain, Gill I (Part 1180) for 5 18. minutes.
- 19. Rinse slides in warm tap water to blue sections.
- Dehydrate in two changes each of 95% and 100% ethyl alcohol. 20. Clear in three changes of xylene, 10 dips each; coverslip with compatible mounting medium.

RESULTS:

7.

P504S positive expression CK5/14 positive expression p63 positive expression Myometrium

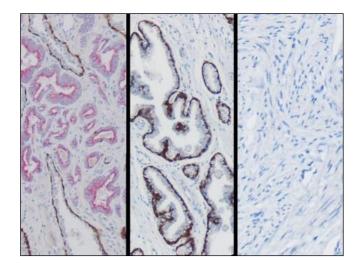
Red granular cytoplasmic staining Brown cytoplasmic staining Brown nuclear staining Negative

PROCEDURE NOTES:

- Do not allow sections to dry out at any point during procedure.
- Dilute sufficient Hydrogen Peroxide 30%, Aqueous (Part 1206) with 2. distilled water to a 3% (1/10) solution prior to use.
- Dilute sufficient Tris Buffered Saline 0.05M, pH 7.6, 10X (Part 3 140304) with distilled water to a 1/10 solution prior to use for all buffer rinses in this procedure.
- Biocare CK5/14 + p63 + P504S (PPM 225DS) is the pre-diluted 4 multiplex primary antibody used.
- Biocare MACH 2 Double Stain 2 Polymer Detection Kit (MRCT525) 5. provides the polymer solution used.
- 6 Cell Margue DAB Substrate Kit (957D) is the chromogen used.
- 7. Biocare Vulcan Fast Red Chromogen Kit 2 (FR805) is the second chromogen used.
- 8. If using a xylene substitute, closely follow the manufacturer's recommendations for deparaffinization and clearing steps.

REFERENCES:

- Biocare CK5/14 + p63 + P504S datasheet. 1
- 2. Biocare MACH 2 Double Stain 2 Polymer Detection Kit datasheet.
- 3. Cell Margue DAB Substrate Kit datasheet.
- 4. Biocare Vulcan Fast Red Chromogen Kit 2 datasheet
- 5. Modifications developed by Newcomer Supply Laboratory.



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