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Part 3150 Revised January 2020

# Calretinin Control Slides - Technical Memo

CONTROL SLIDES: Part 3150A Part 3150B 10 Slide/Set 98 Slide/Set

PRODUCT SPECIFICATIONS:

**Tissue:** Positive staining mesothelioma 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: Calretinin quality control stained slide(s) included.

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

**Storage:** 15-30°C in a light deprived and humidity controlled environment. **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 Calretinin Control Slides are for the positive immunohistochemical staining of Calretinin, useful in differentiating mesothelioma from adenocarcinomas of the lung and other sources.

### **NEWCOMER SUPPLY VALIDATION PROCEDURE:**

- 1. Heat dry sections in oven according to your laboratory protocol.
- 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.
  - a. See Procedure Note #1.
- 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 6507) to reduce reagent usage and ensure tissue coverage.
- Block endogenous peroxidase with freshly made 3% Hydrogen Peroxide. Incubate for 5 minutes.
  - a. See Procedure Note #2.
- Wash slides gently in distilled water. Rinse in two changes of Tris Buffered Saline.
  - See Procedure Note #3.
- 8. Tap off excess buffer; apply Calretinin primary antibody. Incubate at room temperature for 30 minutes.
- 9. Rinse slides in two changes of buffer.
- Tap off excess buffer; apply Amplifier. Incubate for 10 minutes.
- 11. Rinse slides in two changes of buffer.
- 12. Tap off excess buffer; apply HRP Polymer. Incubate for 10 minutes.
- 13. Rinse slides in two changes of buffer.
- 14. Prepare required quantity of DAB substrate/chromogen.
- 15. Tap off excess buffer; apply DAB. Incubate for 5 minutes.
- 16. Rinse slides in four changes of distilled water.
- Counterstain lightly with Hematoxylin Stain, Gill I (Part 1180) for 5 minutes.
- 18. Rinse slides in warm tap water to blue sections.
- Dehydrate in two changes each of 95% and 100% ethyl alcohol.
   Clear in three changes of xylene, 10 dips each; coverslip with compatible mounting medium.

## **RESULTS:**

Calretinin positive expression Myometrium Brown cytoplasmic & nuclear staining Negative

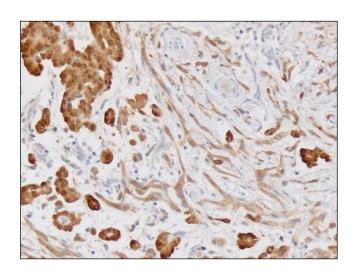
Nuclei Blue

### PROCEDURE NOTES:

- 1. Do not allow sections to dry out at any point during procedure.
- 2. Dilute sufficient Hydrogen Peroxide 30%, Aqueous (Part 1206) with distilled water to a 3% (1/10) solution prior to use.
- Dilute sufficient Tris Buffered Saline 0.05M, pH 7.6, 10X (Part 140304) with distilled water to a 1/10 solution prior to use for all buffer rinses in this procedure.
- Cell Marque Calretinin (polyclonal 232A) is the concentrated primary antibody used. Dilute primary antibody to 1/600 working dilution with Cell Marque Emerald: Antibody Diluent (936B).
- Cell Marque HiDef Detection™ HRP Polymer System (954D) provides the Amplifier and HRP Polymer solutions used.
- 6. Cell Marque DAB Substrate Kit (957D) is the chromogen used.
- If using a xylene substitute, closely follow the manufacturer's recommendations for deparaffinization and clearing steps.

### **REFERENCES:**

- Cell Marque Calretinin Antibody datasheet.
- 2. Cell Marque Emerald: Antibody Diluent datasheet.
- 3. Cell Margue HiDef Detection™ Polymer System datasheet.
- 4. Cell Marque DAB Substrate Kit datasheet.
- 5. Modifications developed by Newcomer Supply Laboratory.



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