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Part 3870 Revised January 2020

# Vimentin Control Slides – Technical Memo

**CONTROL SLIDES:** 

Part 3870A 10 Slide/Set

98 Slide/Set

Part 3870B

### **PRODUCT SPECIFICATIONS:**

Tissue: Positive staining tonsil and negative staining adipose. Fixation: Formalin 10%, Phosphate Buffered (Part 1090).

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

Quality Control Stain: Vimentin 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 Vimentin Control Slides are for the positive immunohistochemical staining of Vimentin, a ubiquitous intermediate filament found primarily in a wide variety of mesenchymal cells. Vimentin is also commonly used to assess the effects of over-fixation and immunoreaction.

#### NEWCOMER SUPPLY VALIDATION PROCEDURE:

- 1. Heat dry sections in oven according to your laboratory protocol.
- Deparaffinize sections thoroughly in three changes of xylene, 3 2. 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. а.
- Proceed, if necessary, with an epitope/antigen retrieval technique 3. approved for use in your laboratory.
- Rinse in distilled water; tap off excess water. 4
- 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.
  - See Procedure Note #2. a.
- Wash slides gently in distilled water. Rinse in two changes of Tris 7. Buffered Saline.
  - a. See Procedure Note #3.
- Tap off excess buffer; apply Vimentin primary antibody. Incubate 8. at room temperature for 30 minutes. 9
  - Rinse slides in two changes of buffer.
- Tap off excess buffer; apply Amplifier. Incubate for 10 minutes. 10.
- 11. Rinse slides in two changes of buffer.
- Tap off excess buffer: apply HRP Polymer. Incubate for 10 minutes. 12.
- Rinse slides in two changes of buffer. 13.
- Prepare required quantity of DAB substrate/chromogen. 14.
- Tap off excess buffer; apply DAB. Incubate for 5 minutes. 15.
- Rinse slides in four changes of distilled water. 16.
- Counterstain lightly with Hematoxylin Stain, Gill I (Part 1180) for 5 17. minutes.
- Rinse slides in warm tap water to blue sections. 18.
- 19. 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:**

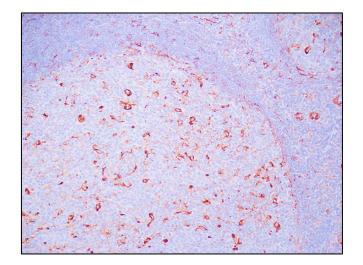
Vimentin positive expression	Brown cytoplasmic staining
Adipose	Negative
Nuclei	Blue

### **PROCEDURE NOTES:**

- Do not allow sections to dry out at any point during procedure. 1.
- 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 З 140304) with distilled water to a 1/10 solution prior to use for all buffer rinses in this procedure.
- 4 Cell Margue Vimentin (V9) is the concentrated primary antibody used. Dilute primary antibody to 1/100 working dilution with Cell Margue Emerald: Antibody Diluent (936B).
- Cell Margue HiDef Detection<sup>™</sup> HRP Polymer System (954D) 5. 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 7. recommendations for deparaffinization and clearing steps.

## **REFERENCES:**

- Cell Margue Vimentin Antibody datasheet. 1.
- Cell Marque Emerald: Antibody Diluent datasheet. 2.
- Cell Marque HiDef Detection<sup>™</sup> Polymer System datasheet. 3.
- Cell Marque DAB Substrate Kit datasheet. 4.
- 5. Modifications developed by Newcomer Supply Laboratory.



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