

Version 2 Last updated 27 June 2018

# ab150679 Papanicolaou (PAP) Red Stain Kit (Cytology Stain)

For the Differentiation of Cells in Vaginal Smears for the Detection of Vaginal, Uterine and Cervical Cancer.

This product is for research use only and is not intended for diagnostic use.

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# 1. Overview

Papanicolaou (PAP) Red Stain Kit (Cytology Stain) (ab150679) is designed to differentiate between a variety of cells in vaginal smears for detection of vaginal, uterine and cervical cancer. In addition, this procedure is valuable for staining a variety of other bodily secretions and cell smears. The procedure was developed in the early 1940's by George Papanicolaou.

## Staining Interpretation:

|                    |                                      |
|--------------------|--------------------------------------|
| Nuclei             | Blue                                 |
| High Keratin Cells | Orange                               |
| Superficial Cells  | Pink                                 |
| Erythrocytes       | Dark Pink                            |
| Parabasal Cells    | Blue/Green                           |
| Intermediate Cells | Blue/Green                           |
| Metaplastic Cells  | May contain both Blue/Green and Pink |

**Control Tissue:** Gynecological Smear; any Superficial Cell Smear.

## 2. Materials Supplied and Storage

Store kit at room temperature immediately on receipt and check below for storage for individual components. Kit can be stored for 1 year from receipt.

Keep away from open flame and refer to the safety datasheet.

| Item                           | Quantity | Storage temperature (before prep) |
|--------------------------------|----------|-----------------------------------|
| Hematoxylin (Modified Mayer's) | 500 mL   | RT                                |
| OG-6 Solution                  | 500 mL   | RT                                |
| EA-50 Stain Solution           | 500 mL   | RT                                |

### 3. Materials Required, Not Supplied

These materials are not included in the kit, but will be required to successfully perform this assay:

- Alcohol (70% and 95%).
- Absolute Alcohol.

## 4. General guidelines, precautions, and troubleshooting

Please observe safe laboratory practice and consult the safety datasheet.

For general guidelines, precautions, limitations on the use of our assay kits and general assay troubleshooting tips, particularly for first time users, please consult our guide:

[www.abcam.com/assaykitguidelines](http://www.abcam.com/assaykitguidelines)

For typical data produced using the assay, please see the assay kit datasheet on our website.

## 5. Staining Protocol

- Equilibrate all materials and prepared reagents to room temperature just prior to use and gently agitate.
  
- 1. Place slide in 95% alcohol for 5 minutes.
- 2. Place slide in 70% alcohol for 5 minutes.
- 3. Place slide in distilled water for 2 minutes.
- 4. Apply adequate Hematoxylin to completely cover cell smear and incubate for 5 minutes.
- 5. Rinse slide in distilled water to remove excess stain.
- 6. Rinse slide in tap water for 2 minutes.
- 7. Rinse slide in two changes of distilled water.
- 8. Dip slide several times in 95% alcohol and blot off excess.
- 9. Apply adequate OG-6 Stain Solution to completely cover cell smear to excess and incubate for 2 minutes.
- 10. Rinse slide gently using absolute alcohol.
- 11. Apply adequate EA-50 Stain Solution to completely cover cell smear to excess and incubate for 3 minutes.
- 12. Rinse slide gently using absolute alcohol.
- 13. Quickly dehydrate slide in 3 changes of absolute alcohol.
- 14. Clear slide and mount in synthetic resin.

## 6. FAQs / Troubleshooting

General troubleshooting points are found at [www.abcam.com/assaykitguidelines](http://www.abcam.com/assaykitguidelines).

## 7. Notes





## Technical Support

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