

HPV CytoDetector HRP/DAB Detection System

Intended Use *For Research Use Only*

Summary And Explanation The HPV CytoDetector HRP/DAB Detection System is a non-biotin, 2-step polymeric detection system that allows for the qualitative immunocytochemical detection of Human Papillomavirus on cervical cytology specimens. The CytoDetector kits have been developed using a proprietary tandem hyperlabelling technology used to directly label immunoglobulins with enzymes. This ensures consistent and reproducible immunostaining for HPV.

Anti-human papillomavirus, clone SB24 (anti-HPV) reacts with a non-conformational internal linear epitope of a major capsid protein of HPV, which is broadly expressed among the different HPV subtypes.

Presentation The HPV CytoDetector HRP/DAB Detection System contains a mouse monoclonal HPV prediluted antibody clone SB24, a prediluted mouse negative control, ImmunoRetriever with Citrate epitope retrieval solution, Peroxidase Blocker solution, an Anti-Mouse Horseradish Peroxidase solution, a DAB Buffer and a DAB Chromogen solution. All the components are buffered with PBS containing proteins, stabilizers and a non-azide anti-microbial.

Availability

Component Name	Catalog Number		
	BSB 0248 (70 Tests)	BSB 0249 (150 Tests)	BSB 0250 (500 Tests)
Mouse Monoclonal HPV Prediluted Antibody	7 mL	15 mL	50 mL
Mouse Negative Control	7 mL	15 mL	50 mL
20X ImmunoRetriever with Citrate	50 mL	100 mL	200 mL
CytoDetector Peroxidase Blocker	15 mL	30 mL	100 mL
CytoDetector HRP Label	15 mL	30 mL	100 mL
CytoDetector DAB Buffer	15 mL	50 mL	200 mL
CytoDetector DAB Chromogen	1 mL	3 mL	12 mL

Storage Store at 2-8°C

Stability 3 years

The CytoDetector Solutions are stable at 2-8°C for up to **3** years from when originally produced (see expiration date on product label). These products are stable up to the expiration date on the label. Do not use this product after the expiration date. Adhere to all local laws when disposing of this product.

Protocol Suggested protocol on reverse

Preparation of Working Solutions

The **Prediluted HPV Mouse Antibody**, **Prediluted Mouse Negative Control**, **CytoDetector Peroxidase Blocker**, and **Anti-Mouse Horseradish Peroxidase Label** are ready-to-use working solutions and require no further preparation. The **20X ImmunoRetriever with Citrate** needs to be diluted with distilled water to a 1X concentration before use by adding 50 mL of 20X ImmunoRetriever with Citrate to 950 mL of distilled water and mixing. The **DAB Chromogen** is concentrated and needs to be diluted and mixed into the **DAB Buffer** to produce the working DAB substrate-chromogen solution. For each 1 mL of working DAB substrate-chromogen solution required for the experiment, 1 drop of **DAB Chromogen** should be added and mixed into 1 mL of **DAB Buffer**.

Working DAB Substrate-Chromogen Required	1 mL	2 mL	3 mL
DAB Buffer	1 mL	2 mL	3 mL
DAB Chromogen	1 drop	2 drops	3 drops

Recommended Immunohistochemical Protocol

1. Dehydrate cytology sample slides in 100% ethanol and then rehydrate.
2. Place cytologies in the prepared **1X ImmunoRetriever Citrate** and heat treat for 15 minutes in a Pressure Cooker or 45 Minutes in a Water Bath or Steamer at 95-98°C.
3. Wash with 5 changes of ICC Wash buffer.
4. Cover cytologies with the **CytoDetector Peroxidase Blocker** for 5 min.
5. Wash with 3 changes of ICC wash buffer.
6. Cover cytologies with the **HPV Primary Antibody** or **Negative Control** and incubate for 45 minutes.
7. Wash with 3 changes of ICC wash buffer.
8. Cover cytologies with the **CytoDetector HRP Label**, incubate for 45 min.
9. Rinse with 3 changes of ICC wash buffer.
10. Prepare DAB by adding one drop of **CytoDetector DAB Chromogen** per 1 mL of **CytoDetector DAB Buffer** and mix.
11. Cover cytologies with the prepared DAB substrate-chromogen solution, incubate for 10 min.
12. Rinse with 5 changes of DI water
13. Counterstain and then dehydrate.
14. Coverslip

Abbreviated Immunohistochemical Protocol

Step	CytoDetector HRP
Peroxidase Blocker	5 minutes
Primary Antibody	45 minutes
HRP Label	45 minutes
DAB Substrate-Chromogen	10 minutes
Counterstaining	Time varies with counterstain

Precautions

For professional users. Minimize microbial contamination of reagents. Proper handling procedures should be used.



The following are the appropriate Risk and Safety requirements:

Harmful if swallowed. Irritating to eyes, respiratory system, and skin. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection. If swallowed seek medical advice immediately and show the product container



Bio SB, Inc. • 69 Santa Felicia Dr., Santa Barbara, CA 93117, USA.

Tel. (805) 692-2768 • Tel. (800) 561-1145 • Fax. (805) 692-2769

• E-mail: info@biosb.com • Website: www.biosb.com