

For In Vitro Diagnostic Use

## Mouse/Rabbit PolyDetector DAB HRP Brown Detection System

### Intended Use

For In Vitro Diagnostic Use.

### Summary and Explanation

The **Mouse/Rabbit PolyDetector DAB HRP Brown System** is a non-biotin, 2-step polymeric detection system that allows for the demonstration of antigens in paraffin-embedded tissue, cryostat sections, blood smears, cytosmears, and cell preparations. The **PolyDetector** kits have been developed using a proprietary tandem hyperlabeling technology used to directly label immunoglobulins with enzymes. This ensures consistent and reproducible immunostaining for all types of nuclear, cytoplasmic and membranous antigens, in different types of tissues.

The increased sensitivity of the **Mouse/Rabbit PolyDetector DAB HRP Brown Detection System** allows for rapid staining procedures without compromising stain quality. The **Mouse/Rabbit PolyDetector DAB HRP Brown Detection System** is suitable for use with mouse IgG and IgM and rabbit primary antibodies, both monoclonal and polyclonal. The **Mouse/Rabbit PolyDetector DAB HRP Brown Detection System** kits are optimized for use with Bio SB primary antibodies; however, they are universal kits and therefore work equally well with prediluted and concentrated antibodies from different vendors.

Availability	
Catalog Number	Volume
<b>BSB 0201S</b>	5 mL Each
<b>BSB 0201</b>	15 mL Each
<b>BSB 0201H</b>	15 mL Label Only
<b>BSB 0203</b>	50 mL Each
<b>BSB 0203H</b>	50 mL Label Only
<b>BSB 0205</b>	100 mL Each
<b>BSB 0205H</b>	100 mL Label Only
<b>BSB 0207</b>	200 mL Each
<b>BSB 0207H</b>	200 mL Label Only
<b>BSB 0207A</b>	1000 mL Each
<b>BSB 0207AH</b>	1000 mL Label Only

### Presentation

The **Mouse/Rabbit PolyDetector HRP DAB Brown Detection System** contains a Peroxidase Blocker solution, an Anti-Mouse/Rabbit Horseradish Peroxidase solution, a DAB Buffer, and a DAB Chromogen solution. All the components are buffered with stabilizers and an anti-microbial.

### Storage:

Store at 2°C – 8°C

### Stability:

Stable up to the expiration date listed on the label. Do not use this product after the expiration date listed on the product label.

### Protocol

The **PolyDetector Peroxidase Blocker** and **Anti-Mouse/Rabbit Horseradish Peroxidase Label** are ready-to-use working solutions and require no further preparation. 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

### Mounting Protocol

#### A. Alcohol/Xylene Protocol

1. After the histological, immunohistochemical or *in situ* hybridization staining procedure is completed, rinse slides in deionized water.
2. Dip the slides in alcohol 30%, 70%, and 100% for 1-2 minutes, then dip for 1-2 minutes in 3 xylenes.
3. Add an organic Permanent Mounting medium such as **XyGreen PermaMounter** (BSB 0169-0174), **PermaMounter** (BSB 0094-0097) or similar permanent mounting media.
4. Apply cover slip and air dry before microscopic observation.

#### B. ChromoProtector Protocol

1. After the histological, immunohistochemical or *in situ* hybridization staining procedure is completed, rinse slides in deionized water. Do not incubate tissue or cell specimens in solvents such as alcohol, toluene, or xylene.
2. Using a Coplin jar or a staining dish, immerse slides with tissues in **ChromoProtector** or lay wet slides horizontally and apply sufficient drops of **ChromoProtector** (BSB 0151 – BSB 0156) to completely cover the tissue. Carefully spread **ChromoProtector** if needed, but avoid contacting the tissue.
3. Incubate slides for ten minutes at 60°C to allow **ChromoProtector** to penetrate tissues.
4. Remove excess **ChromoProtector** by placing slides vertically over an absorbent material and let excess drain off into absorbent material. Do not rinse slides.
5. Allow slides to COMPLETELY air dry.

NOTE: The **ChromoProtector** will protect tissue from drying artifacts during the air-drying process.

6. When slides are completely dried, they can be mounted using most standard mounting methods such as aqueous or permanent.

#### 7. Permanent Mounting

- Do not dehydrate slide through alcohol and/or xylene prior to mounting.

- **Organic Permanent Mounting** medium such as **XyGreen PermaMounter** (Cat # BSB 0169-0174), **PermaMounter** (Cat# BSB 0094-0097) or similar permanent mounting media can be added directly to the slide until the tissue or cell specimen is covered.
- If the Organic Permanent Mounting medium does not spread evenly on the dry slide, the slide can be dipped in toluene or xylene for 1 – 2 seconds to aid spreading of the mounting medium.
- Use a minimum amount of mounting medium so that slides dry rapidly.
- Apply coverslip and air dry before microscopic observation.

#### Recommended Immunohistochemical Protocol

1. Cut and mount 3-4 micron formalin-fixed paraffin-embedded tissues on positive charged slides.
2. Air dry for 2 hours at 58° C.
3. Deparaffinize, dehydrate and rehydrate tissues.
4. Subject tissues to heat epitope retrieval using a suitable retrieval solution such as ImmunoDNA Retriever with Citrate (BSB 0020-BSB 0023) or EDTA (BSB 0030-BSB 0033).
5. Wash with 5 changes of IHC Wash buffer.
6. Place slides in **PolyDetector Peroxidase Blocker** for 5 min.
7. Wash with 3 changes of IHC wash buffer.
8. Cover tissue with the **Primary Antibody** following manufacturer’s recommended protocol. If using concentrated antibodies, we suggest using our **ImmunoDetector Protein Blocker/Antibody Diluent** to dilute antibodies.
9. Wash with 3 changes of IHC wash buffer.
10. Cover tissue with **PolyDetector HRP Label**, incubate for 45 min.
11. Rinse with 3 changes of IHC wash buffer.
12. Prepare DAB by adding one drop of **PolyDetector DAB Chromogen** per mL of **PolyDetector DAB Buffer** and mix.
13. Cover tissue with prepared DAB substrate-chromogen solution, incubate for 10 min.
14. Rinse with 5 changes of DI water
15. Counterstain and then dehydrate.
16. Coverslip

Abbreviated Immunohistochemical Protocol	
Step	PolyDetector HRP
Peroxidase Blocker	5 minutes
Primary Antibody	45 - 60 minutes
HRP Label	45 minutes
DAB Substrate-Chromogen	10 minutes
Counterstaining	Time varies with counterstain








#### Precautions

1. For professional users only. Results should be interpreted by a medical professional.
2. Ensure proper handling procedures are used with reagent. Always wear proper personal protective equipment such as laboratory coat, goggles and gloves when handling reagents.
3. This product contains components with sodium azide (NaN<sub>3</sub>), a toxic chemical. At product concentrations it is not classified as hazardous due to its low concentration. Sodium azide may react with plumbing to form highly explosive build-ups of metal azides. Upon disposal, flush with large volumes of water to prevent metal azide build up.
4. Minimize microbial contamination of reagents.
5. Dispose of unused solution according to local and federal regulations.
6. Do not ingest reagent. If reagent ingested, contact a poison control center immediately.
7. Avoid contact with eyes. Flush with large quantities of water if contact occurs.
8. Follow safety precautions for the heating device (TintoRetriever Pressure Cooker or similar).
9. For complete recommendations for handling biological specimens please refer to the CDC document, “Guidelines for Safe Work Practices in Human and Animal Medical Diagnostic Laboratories” (1).

#### References

1. U.S. Department of Health and Human Services: Centers for Disease Control and Prevention. Guidelines for Safe Work Practices in Human and Animal Medical Diagnostic Laboratories. Supplement / Vol. 61, January 6, 2012.

#### Symbol Key / Légende des symboles/Erläuterung der Symbole

	In Vitro Diagnostic Medical Device Dispositif médical de diagnostic in vitro In-Vitro-Diagnostikum		Storage Temperature Limites de température Zulässiger Temperaturbereich		Manufacturer Fabricant Hersteller		Catalog Number Référence du catalogue Bestellnummer
			Read Instructions for Use Consulter les instructions d'utilisation Gebrauchsanweisung beachten		Expiration Date Utiliser jusque Verwendbar bis		Lot Number Code du lot Chargenbezeichnung