Mouse/Rabbit ImmunoDetector AEC HRP Red Detection System

CE IVD

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Intended Use
For In Vitro Diagnostic Use.

Summary and Explanation
The Mouse/Rabbit ImmunoDetector AEC HRP Red Detection System is a 2 step Biotin-Streptavidin-Horseradish Peroxidase Detection System that allows for the demonstration of antigens in formalin-fixed paraffin-embedded tissue, frozen sections, cytosmears, and cell preparations. The increased sensitivity of the Mouse/Rabbit ImmunoDetector AEC HRP Red Detection System allows for rapid staining procedures without compromising the quality of stains.

The Mouse/Rabbit ImmunoDetector AEC HRP Red Detection System is suitable for use with mouse or rabbit primary antibodies. The Mouse/Rabbit ImmunoDetector AEC HRP Red Detection System kits are optimized for use with Bio SB primary antibodies; however, these universal kits work equally well with prediluted and concentrated antibodies from other vendors.

Presentation
The Mouse/Rabbit ImmunoDetector AEC HRP Red Detection System contains a Peroxidase Blocker, a Link of Biotinylated Anti-Mouse and Anti-Rabbit immunoglobulin, a Streptavidin conjugated to Horseradish Peroxidase, and an AEC Chromogen. All components are buffered with stabilizers and an anti-microbial agent.

Catalog No.	*Volume/Qty*
BSB 0002S	5 mL Each
BSB 0002	15 mL Each
BSB 0004	50 mL Each
BSB 0006	100 mL Each
BSB 0008	200 mL Each
BSB 0010	1000 mL Each

Storage Store at 2-8^{0}C

Stability
The Mouse/Rabbit ImmunoDetector AEC HRP Red Detection System is stable up to the expiration date listed on the product label. Do not use this product after the expiration date listed on the product label. Temperature fluctuations should be avoided. Store appropriately when not in use, and avoid prolonged exposure to room temperature conditions.

Precautions
1 For professional users only. Results should be interpreted by a qualified medical professional.
2. Ensure proper handling procedures are used with reagent. Minimize microbial contamination of reagents.
3. Always wear proper personal protective equipment such as laboratory coat, goggles and gloves when handling reagents.
4. Dispose of unused solution according to local and federal regulations.
5. Do not ingest reagent. If reagent is ingested, seek medical advice immediately.
6. Avoid contact with eyes. If contact occurs, flush with large quantities of water.
7. Follow safety precautions for the heating device used for epitope retrieval (TintoRetriever Pressure Cooker or similar).
8. For additional safety information refer to Safety Data Sheet for this product.
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).

Specimen Preparation
Paraffin sections: This product can be used on formalin-fixed paraffin-embedded (FFPE) tissue sections. Ensure tissue undergoes appropriate fixation for best results. Pre-treatment of tissues with heat-induced epitope retrieval (HIER) is recommended using Bio SB ImmunoDNA Retriever with Citrate (BSB 0020 - BSB 0023), ImmunoDNA Retriever with EDTA (BSB 0030-BSB 0033). Additionally, TintoDeparaffinator Citrate or EDTA (BSB 0175 - BSB 0178) can be used to deparaffinize, retrieve and hydrate FFPE Tissues. Tissue should remain hydrated using Bio SB Immuno/DNA Washer solutions (BSB 0029 & BSB 0042).
Frozen sections and cell preparations: This product can be used for labeling acetone-fixed frozen sections and acetone-fixed cell preparations.

Preparation of Working Solution

The ImmunoDetector Peroxidase Blocker, ImmunoDetector Link Anti-Mouse/Rabbit, Horseradish Peroxidase Label and AEC Chromogen are ready-to-use working solutions and require no further preparation.

Recommended Protocol

1. Cut and mount 3-5-micron formalin-fixed paraffin-embedded tissues on positive charged slides such as Bio SB Hydrophilic Plus Slides (BSB 7028) or TintoDetector Cap Gap Slides (BSB 7006).
2. Air dry for 2 hours at 58° C.
3. Deparaffinize, dehydrate and rehydrate tissues. Additionally, TintoDeparaffinator Citrate or EDTA (BSB 0175 - BSB 0178) can be used to deparaffinize, retrieve and hydrate FFPE Tissues.
4. Subject tissues to heat induced epitope retrieval (HIER) using a suitable retrieval solution such as ImmunoDNA Retriever with Citrate (BSB 0020-BSB 0023) or EDTA (BSB 0030-BSB 0033).
5. Any of three heating methods may be used:

a. TintoRetriever Pressure Cooker or Equivalent

Place tissues/slides in a staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA or TintoDeparaffinator Citrate or EDTA, and place on trivet in the pressure cooker. Add 1-2 inches of distilled water to the pressure cooker and turn heat to high. Incubate for 15 minutes. Release vapor, open and immediately transfer slides to room temperature.

b. TintoRetriever PT Module or Water Bath Method

Place tissues/slides in a pre-warmed staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA, or TintoDeparaffinator Citrate or EDTA at 95°-99° C. Incubate for 30-60 minutes. Open and immediately transfer slides to room temperature.

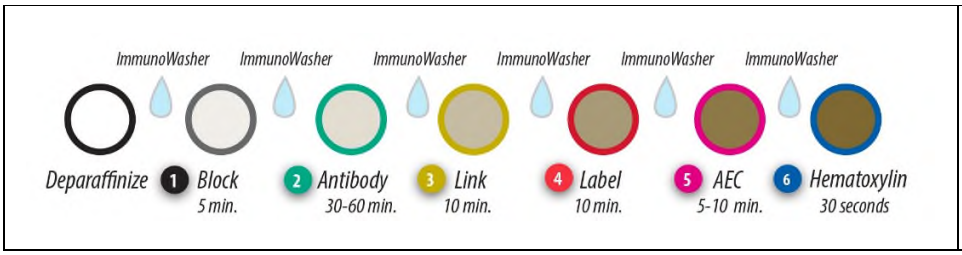
c. Conventional Steamer Method

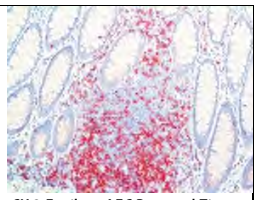
Place tissues/slides in a pre-warmed staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA, or TintoDeparaffinator Citrate or EDTA in a steamer, cover and steam for 30-60 minutes.

6. After heat treatment, transfer slides in ImmunoDNA Retriever with Citrate or EDTA, or in TintoDeparaffinator Citrate or EDTA to room temperature and let stand for 15-20 minutes.
7. For manual staining, perform antibody incubation at ambient temperature. For automated staining methods, perform antibody incubation according to instrument manufacturer's instructions.
8. Wash slides with ImmunoDNA washer or DI water.
9. Continue IHC staining protocol. Wash slides between each step with ImmunoDNA washer solution.

Abbreviated Immunohistochemical Protocol

Step	ImmunoDetector AP/HRP
Peroxidase/AP Blocker	5 min.
Primary Antibody	30-60 min.
1st Step Detection	10 min.
2nd Step Detection	10 min.
Substrate-Chromogen	5-10 min.
Counterstain / Coverslip	Varies





CK 3 Epsilon, AEC Protocol Time 60 Minutes

Mounting Protocol

For detailed instructions using biodegradable permanent mounting media such as XyGreen PermaMounter (BSB 0169-0174) or organic solvent based resin such as PermaMounter (BSB 0094-0097), refer to PI0174 or PI0097.

Product Limitations

Due to inherent variability present in immunohistochemical procedures (including fixation time of tissues, dilution factor of antibody, retrieval method utilized and incubation time), optimal performance should be established through the use of positive and negative controls. Results should be interpreted by a qualified medical professional.

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

EC REP EMERGO EUROPE Prinsessegracht 20 2514 AP The Hague The Netherlands	Storage Temperature Limites de température Zulässiger Temperaturbereich	Manufacturer Fabricant Hersteller	REF Catalog Number Référence du catalogue Bestellnummer
IVD In Vitro Diagnostic Medical Device Dispositif médical de diagnostic in vitro In-Vitro-Diagnostikum	Read Instructions for Use Consulter les instructions d'utilisation Gebrauchsanweisung beachten	Expiration Date Utiliser jusque Verwendbar bis	LOT Lot Number Code du lot Chargenbezeichnung

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