

Ultra High Def™ Black-HRP

CRM-001-30
CRM-001-110

Document #: IFU-CRM-001-Ultra High Def™ Black-HRP

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Intended Use

For In Vitro Diagnostic Use

Summary and Explanation

Ultra High Def™ Black-HRP is a substrate-chromogen system designed to be used for either IHC or ISH when using Horseradish Peroxidase Detection. Ultra High Def™ Black-HRP can be permanently mounted to produce a sharply contrasting ebony black color that can be easily distinguished from other stains.

Principles of the Procedures

Substrate/chromogen in conjunction with horseradish peroxidase (HRP)-based immunostaining or in situ hybridization systems. With at least 1 day working stability, this substrate/chromogen can be used in any automation system as well as manual use.

Reagents Provided

Kit Contents	30 mL	110 mL
UHD™ Black HRP Substrate Buffer	30 mL	110 mL
UHD™ Black HRP Chromogen	1 mL	3 mL
Empty Mixing Bottle	1	1

Prepare the Following Solutions Before Use

1. Aliquot 1mL of Ultra High Def™ Black HRP Substrate Buffer in a mixing bottle.
2. Add one drop (~20µl) of concentrated Ultra High Def™ Black HRP Chromogen solution.
3. Replace tip, mix, and allow solution to reach room temperature before using.
4. The working chromogen-substrate solution is stable for up to 1 day, for optimal results prepare fresh reagent.

Note: The Ultra High Def™ Black HRP chromogen-substrate working solution is light sensitive and should be kept away from light as much as possible. Working solution is stable for up to 1 day.

Materials Required But Not Provided

All the reagents and materials required for IHC are not provided. Pretreatment reagents, detection systems, control slides, control reagents

and other ancillary reagents are available from StatLab. Please refer to our website at: www.statlab.com

Storage and Handling

Store at 2-8°C. Away from light. Do not use product after the expiration date printed on vial. If reagents are stored under a condition other than those specified in the package insert, they must be verified by the user. Diluted reagents should be used promptly.

Staining Procedure

1. Once sections have been incubated with horseradish peroxidase, wash sections with wash buffer, then follow protocol of choice:
 - a. **Pre-Mix Working Solution: (Automation)** Ultra High Def™ Black HRP has a working solution stability of at least 1 day and can be loaded directly onto instrument as a single solution. Reduce exposure to light to achieve optimal staining. Working solution is applied directly to slide. Incubate for 5-10 minutes.
 - b. **On Board Mixing: (Automation)** Instruments that have on-board mixing capability can load the chromogen and substrate buffer components independently. Working solutions is made mixing reagents 1:50 (1 drop to 1 mL) in on board mixing station before application to slide. Incubate for 5-10 minutes
 - c. **Manual Use:** Mix substrate-chromogen and buffer in a 1:50 ratio and apply directly to slide. Incubate for 5-10 minutes.
2. Counterstain with Hematoxylin or other counterstain.
3. Wash with DI H₂O followed by Immuno wash buffer.
4. Slides can be dehydrated through alcohol and xylene or xylene substitute or can be air dried, then permanently mounted.

Precautions

1. Consult local and/or state authorities with regard to recommended method of disposal.
2. Materials of human or animal origin should be handled as biohazardous materials and disposed of with proper precautions.
3. Avoid microbial contamination of reagents. Contamination could produce erroneous results.
4. This reagent may cause irritation. Avoid contact with eyes and mucous membranes.
5. If reagent contacts these areas, rinse with copious amounts of water.
6. Do not ingest or inhale any reagents

Troubleshooting

If unexpected staining/result is observed which cannot be explained by variations in laboratory procedures and a problem is suspected, contact StatLab Headquarters: 2090 Commerce Drive, McKinney, TX 75069. Call at (800) 442-3573 or email our team at ihctech@statlab.com

