Ultra High Def™ Red-AP

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CRM-005-110

Document #: IFU-CRM-005-Ultra High Def™ Red-HRP

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Intended Use

For In Vitro Diagnostic Use

Summary and Explanation

Ultra High Def™ Red-AP is a substrate-chromogen system designed to be used for either IHC or ISH when using Alkaline Phosphatase Detection. Ultra High Def™ Red-AP produces a brilliant dark red color. Ultra High Def™-Red is soluble in organic solvents (alcohol), however sections can be permanently mounted. This chromogen substrate system may be used for both automation and manual use.

Principles of the Procedures

Substrate/chromogen in conjunction with alkaline phosphatase-based immunostaining or in situ hybridization systems.

Reagents Provided

Kit Contents	30 mL	110 mL
UHD™ Red AP Substrate Buffer	30 mL	110 mL
UHD™ Red AP Chromogen	1 mL	3 mL
Empty Mixing Bottle	1	1

Prepare the Following Solutions Before Use

1. Aliquot 1mL of Ultra High Def™ Red AP Substrate Buffer in a mixing bottle.
2. Add one drop (~20µl) of concentrated Ultra High Def™ Red AP Chromogen solution.
3. Replace tip, mix, and allow solution to reach room temperature before using.
4. The working chromogen-substrate solution should be prepared fresh and used within 20-30 minutes of preparation.
5. Any solution not used during this period should be discarded.

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 alkaline phosphatase, wash sections with wash buffer, then follow protocol of choice:
   a. **Batch Mode (Automation)** Using Batch Mode on your instrument, wait for machine to notify you when ready, and then mix chromogen and buffer in a 1:50 ratio (1 drop to 1 ml) and load onto instrument. Working solution is stable for only 20-30 minutes and should be applied to slide immediately for best results. Incubate for 10-20 minutes.
   b. **Manual Use:** Mix substrate-chromogen and buffer in a 1:50 ratio and apply directly to slide. Incubate for 10 – 20 minutes.
2. Counterstain with Hematoxylin or other counterstain or other counterstains.
3. Wash with DI H_2O followed by Immuno wash buffer.
4. Slides should be air dried (do not dehydrate in alcohol). After rinsing off counterstain in DI H2O. Drain off fluid without further rinsing. Leave slides on benchtop for at least 20 minutes to air dry, then permanently mount or use aqueous mounting media (StatLab Catalog #ACR-010-30).

Note: Alternatively, slides can be air dried (instead of alcohol and xylene). After rinsing off counterstain in DI water, leave slides on benchtop for at least 20 minutes to air dry, then permanently mount or use aqueous mounting media.

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