Product Manual

HIGHDEF® green IHC chromogen (AP)

Catalog #: ADI-950-160

Alcohol & Xylene-substitute Compatible

FOR RESEARCH USE ONLY.
NOT FOR USE IN DIAGNOSTIC PROCEDURES.

INTENDED USE

Substrate/chromogen in conjunction with alkaline phosphatase (AP)-based immunostaining or *in situ* hybridization (ISH) systems.

INTRODUCTION

HIGHDEF® green IHC chromogen (AP) is a substrate-chromogen system designed to be used for either immunohistochemistry (IHC) or ISH when utilizing alkaline phosphatase. HIGHDEF® green IHC chromogen (AP) has been modified to increase stability and staining intensity, producing a strong green color that is insoluble in alcohol and xylene substitutes (both aliphatic hydrocarbon and citrus based); therefore sections can be dehydrated in alcohol, cleared in xylene substitute*, and permanently mounted. However, we recommend air drying slides and then permanently mounting. This chromogen substrate system may be used for both automation and manual use.

KIT CONTENTS

Description	**30 mL**
HIGHDEF® green IHC chromogen (AP) Substrate Buffer	30 mL
HIGHDEF® green IHC chromogen (AP) Chromogen	1 mL
Empty Mixing Bottle	1

STORAGE

Store at 2-8°C away from light. Do not use beyond the expiration date stated on the label.

WORKING SOLUTION

Aliquot 1 mL of HIGHDEF® green IHC chromogen (AP) substrate Buffer in a mixing bottle. Add one drop (~20 µL) of concentrated HIGHDEF® green IHC chromogen (AP) chromogen solution. Replace tip, mix, and allow solution to reach room temperature before using.

Note: HIGHDEF® green IHC chromogen (AP) chromogen-substrate working solution is light sensitive and should be kept away from light as much as possible. **Working solution should be made fresh.**

Protocol	STAINING PROCEDURE:	INCUBATION TIMES
Following alkaline phosphatase incubation, wash tissue sections with wash buffer, then follow protocol of choice:		
Pre-Mix Working Solution: (Automation)	HIGHDEF® green IHC chromogen (AP) working solution should be made fresh 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.	**Working Solution: 10 - 20 min**
On Board Mixing (Automation)	Instruments that have on-board mixing capability can load the chromogen and substrate-buffer components independently. Working solution is made mixing reagents 1:50 in on-board mixing station before application to slide.	**Working Solution: 10 - 20 min**
Manual Use	Mix substrate-chromogen and buffer in a 1:50 ratio and apply directly to slide.	**Working Solution: 10 - 20 min**

COUNTERSTAIN

Counterstain with Hematoxylin or Nuclear Fast Red for good contrast. Wash with distilled or de-ionized H_2O followed by immuno wash buffer.

MOUNTING

We recommend air drying slides (instead of dehydrating or clearing in alcohol and xylene-substitute). After rinsing off counterstain in distilled or de-ionized H_2O, leave slides on benchtop for at least 20 minutes to air dry, then permanently mount.

Alternatively, you may dehydrate sections in increasing concentrations of ethanol up to 100%, clear in a xylene-substitute*, and mount with a permanent mounting medium (HIGHDEF® IHC mount, Prod. no. ADI-950-261).

***Note:** Use xylene-substitute instead of xylene.

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TRADEMARKS AND PATENTS

Several Enzo Life Sciences products and product applications are covered by US and foreign patents and patents pending.

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