PermaRed/AP

(Alcohol & Xylene Compatible)

Catalog No.: K 049-110

Intended Use: As a substrate/chromogen in conjunction with alkaline phosphatase based immunostaining or in situ hybridization systems.

Introduction: PermaRed/AP is a substrate-chromogen system designed to be used for either IHC or ISH when utilizing alkaline phosphatase. PermaRed/AP produces a brilliant dark red color. PermaRed/AP is insoluble in organic solvents; therefore sections can be dehydrated in alcohol, cleared in xylene (or a xylene-substitute), and permanently mounted.

Components:
(i) 110mL clear PermarRed/AP Substrate Buffer
(ii) 3mL concentrated PermaRed/AP Chromogen
(iii) One empty mixing dropping bottle

Storage: Store at 2-8°C. Do not use beyond expiration date stated on the labels.

Working Solution: Aliquot 3mL of PermaRed/AP Substrate Buffer in a mixing bottle. Add one drop (~20µL) of PermaRed/AP Chromogen. Replace tip, mix, and allow solution to reach room temperature before using. *Note: The working chromogen-substrate solution should be used within 2-3 minutes of preparation. Any solution not used during this period should be discarded.*

Procedure:
i) After SA-alkaline phosphatase incubation, wash tissue sections with wash buffer.
ii) Wipe slides, removing excess buffer. Add enough drops of working PermaRed/AP solution to cover tissue sections.
iii) Incubate for 5-15 minutes at room temperature. For optimal results, observe reaction under microscope for signal development. Once desired signal to noise ratio is achieved, stop reaction by rinsing slides in wash buffer.
iv) Counter stain sections in hematoxylin.
v) Dehydrate sections in alcohol, clear in Xylene (or Xylene-substitute), and mount in permanent mounting medium.

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