

PermaBlue/AP

(Alcohol & Xylene-substitute Compatible)

- Catalog No.:** K 051
- Intended Use:** Substrate/chromogen in conjunction with alkaline phosphatase (AP)-based immunostaining or *in situ* hybridization systems.
- Introduction:** PermaBlue/AP is a substrate-chromogen system designed to be used for either IHC or ISH when utilizing alkaline phosphatase. PermaBlue/AP produces a vibrant blue color. It 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.
- Components:**
- (i) 30mL clear PermaBlue/AP Substrate Buffer.
 - (ii) 1mL concentrated PermaBlue/AP Chromogen.
 - (iii) One empty mixing dropping bottle.
- Storage:** Store at 2-8°C. Do not use beyond the expiration date stated on the label.
- Working Solution:** Aliquot 3mL of PermaBlue/AP Substrate Buffer in a mixing bottle. Add one drop (~20 μ l) of concentrated PermaBlue/AP Chromogen solution. Replace tip, mix, and allow solution to reach room temperature before using.
Note: The PermaBlue/AP chromogen-substrate working solution should be used within 25 minutes of preparation. Any solution not used during this period should be discarded.
- Procedure:**
- i) After SA-AP or AP-polymer incubation, wash tissue sections with wash buffer.
 - ii) Wipe slides, removing excess buffer. Add enough drops of PermaBlue/AP working solution to cover tissue sections.
 - iii) Incubate for 5-25 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 with DI H₂O.
NOTE: Increasing incubation temperature to 37°C will increase sensitivity and decrease needed incubation time.
 - iv) Counterstain. Nuclear Fast Red provides good contrast. Wash with DI H₂O.
 - v) Dehydrate sections in alcohol, clear in a xylene-substitute*, and mount in permanent mounting medium.

*Notes: Use increasing concentrations of Ethanol up to 100% to dehydrate
Use xylene-substitute instead of xylene.

Alternatively, slides can be air dried (instead of dehydrated or cleared in alcohol and xylene-substitute). After rinsing off counterstain in DI H₂O, leave slides on benchtop for at least 20 minutes to air dry, then permanently mount.

IVD: For In Vitro Diagnostic Use

DBS will not be held responsible for patent infringement or other violation that may occur with the use of our product

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