

# PolyTek Anti-Rabbit Polymerized Alk-Phos

## Description:

PolyTek Anti-Rabbit Polymerized Alk-Phos has been developed to provide the cleanest, most consistent staining available. Developed in the research laboratories of ScyTek, the system is based on a polymerized alkaline phosphatase label that eliminates biotin and its' associated background issues from the equation. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system. PolyTek Anti-Rabbit Polymerized Alk-Phos is effective with antibodies of rabbit or guinea pig origin.

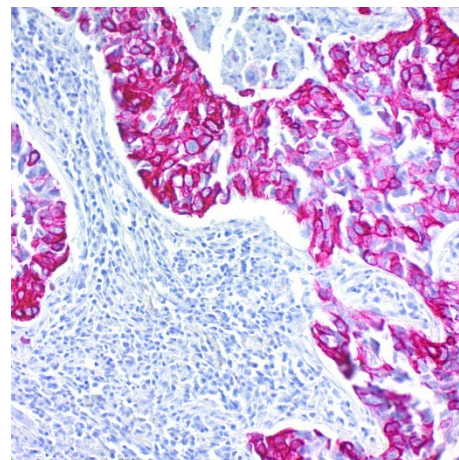
|                      |                      |
|----------------------|----------------------|
| Species of Origin:   | Goat                 |
| Antigen Specificity: | Anti-Rabbit          |
| Preadsorbed Against: | Human                |
| Enzyme Conjugate:    | Alkaline Phosphatase |

## Uses/Limitations:

Not to be taken internally.  
 For In Vitro Diagnostic Use.  
 Histological applications.  
 Do not use if reagents become cloudy.  
 Do not use past expiration date.  
 Use caution when handling reagents.  
 Non-Sterile.

## Control Tissue:

Any well-fixed tissue section.  
 Frozen tissue section.  
 Cytoentrifuge preparation.



Ordering Information and Current Pricing at [www.scytek.com](http://www.scytek.com)

## Availability:

| <u>Item #</u> | <u>Volume</u> |
|---------------|---------------|
| PAL008        | 8 ml          |
| PAL015        | 15 ml         |
| PAL125        | 125 ml        |
| PAL500        | 500 ml        |
| PAL999        | 1000 ml       |

## Recommended, But Not Included:

| <u>Item #</u> | <u>Description</u>                                 |
|---------------|----------------------------------------------------|
| CPL500        | Citrate Plus                                       |
| AAA500        | Super Block                                        |
| PRD500        | Permanent Red Bulk Pack (For Alkaline Phosphatase) |
| HMM500        | Hematoxylin, Mayer's (Lillie's Modification)       |
| BRT500        | Bluing Reagent                                     |

## Storage:

Store at 2-8°C.

Storage: 2° C  8° C

 ScyTek Laboratories, Inc.  
 205 South 600 West  
 Logan, UT 84321  
 U.S.A.

CE

IVD

EC REP

Emergo Europe  
 Westervoortsedijk 60  
 6827 AT Arnhem, The Netherlands

**Precautions:** Avoid contact with skin and eyes.  
Harmful if swallowed.  
Follow all Federal, State, and local regulations regarding disposal.

## Procedure:

1. Rehydrate tissue slides.
2. In a glass or plastic (Autoclavable) Coplin jar, add 5 ml of Citrate Plus (CPL) and 45 ml of deionized water.
3. Submerge slides in diluted Citrate Plus and loosely cap.
4. Add Distilled water to bottom of Autoclave or Pressure Cooker (about 1 inch deep in Pressure Cooker).
5. Place Coplin jar in Pressure Cooker or Autoclave.
6. Turn heat on and allow pressure to rise to 20-25 PSI.
7. Maintain pressure at 20-25 PSI for 5 minutes.
8. Turn off heat source and allow to cool.
9. When pressure has dropped to ambient, carefully remove lid or open door.
10. Using tongs, remove Coplin Jar and place on counter.
11. Once Coplin Jar cools to room temperature remove slides, rinse several times in buffer and proceed with staining as usual.
12. Rinse in distilled/DI water.
13. Rinse 3 times in buffer.
14. Apply Super Block (AAA), and incubate for 5 minutes at room temperature to block nonspecific background staining. **Note:** Do not exceed 10 minutes or there may be a reduction in desired stain.
15. Rinse 1 time in buffer.
16. Apply primary antibody and incubate according to manufacturer's protocol.
17. Rinse 3 times in buffer.
18. Apply PolyTek Anti-Rabbit Polymerized Alk-Phos (PAL) and incubate for 30 minutes at room temperature.
19. Rinse 2 times in buffer.
20. Rinse 1 time in Distilled/DI water.

## Mix Permanent Red Concentrate with Permanent Red Buffer.

21. Combine 10µl of Permanent Red Concentrate with each 1ml of Permanent Red Buffer. **Use combined mixture immediately after mixing.**
22. Apply Permanent Red Chromogen/Substrate mixture and incubate for a second 5 minute period.
23. Rinse 3 times in Distilled/DI water.
24. Apply mixture a second time and incubate for another 5 minutes.
25. Rinse slide using DI/Distilled water.
26. If desired, repeat application for a third time.
27. Apply Hematoxylin for Automation (HMM) and incubate for 30-60 seconds.
28. Rinse 3 times in distilled water.
29. Apply Bluing Reagent (BRT) and incubate for 5-10 seconds.
30. Rinse immediately in distilled or deionized water.
31. Quickly dehydrate in alcohol and clear in xylene or substitute.

*Note: Alcohol and Xylene can cause chromogen to leach from tissue over extended periods of time.*

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32. Coverslip using a permanent mounting media.

### -Troubleshooting Guide-

#### **Overstaining:**

1. Concentration of the primary antibody was too high or the incubation time was too long.
2. Temperature during incubation was too high.
3. Incubation times were too long.

#### **Non-Specific Background Staining:**

1. Rinsing between steps was inadequate.
2. Tissue was allowed to dry with reagents on.
3. Folds in tissue trapped reagents.
4. Antigen migrated in tissue.
5. Excessive tissue adhesive on slides.
6. Inadequate blocking with protein block.

#### **Weak Staining:**

1. Primary antibody concentration was too low or incubation time was too short.
2. Reagents are past their expiration date.
3. Inadequate removal of wash buffer between steps, resulting in dilution of reagents.
4. Room temperature was excessively cool.
5. The primary antibody does not recognize an antigen that survives fixation and embedding in high enough amounts.
6. Excessive incubation with protein block (Super Block or normal serum).

#### **No Staining:**

1. Steps were inadvertently left out.
2. There is no antigen in the tissue.
3. The primary antibody is not of rabbit or guinea pig origin.
4. Chromogenic substrate has been replaced with another that is not intended for use with alkaline phosphatase.
5. One or more components of the kit have been inactivated.

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