

ScyTek Laboratories

Instructions For Use AMH080-IFU

Rev. Date: 10/24/03

Revision: 3

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P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 - Fax (435) 755-0015 - www.scytek.com

UltraTek Alk-Phos (Anti-Polyvalent) Ready-To-Use (70 slide)

Species of Origin: Goat

Antigen Specificity: Anti-Polyvalent (Mouse, Rat, Rabbit and Guinea Pig.

Preadsorbed Against: Human

Enzyme Conjugate: Alkaline Phosphatase

Chromogen Substrate: Fast- Red

Procedure:

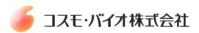
- 1. Deparaffinize and rehydrate tissue section.
- Wash 2 times in buffer.
- 3. If required, incubate tissue in digestive enzyme.
- 4. Wash 4 times in buffer.
- 5. Apply Super Block (blue cap), and incubate for 5 minutes at room temperature to block nonspecific background staining. **Note:** Do not exceed 10 minutes or there may be a reduction in desired stain.
- 6. Wash 1 time in buffer.
- Apply primary antibody and incubate according to manufacturer's protocol.
- 8. Wash 4 times in buffer.
- 9. Apply UltraTek Anti-Polyvalent (yellow cap), and incubate for 10 minutes at room temperature.
- Wash 4 times in buffer.
- 11. Apply UltraTek Alk-Phos (red cap), and incubate for 10 minutes at room temperature.
- 12. Rinse 4 times in buffer.
- 13. Add 1 Fast-Red tablet to a vial of Naphthol Phosphate Buffer and shake until tablet is dissolved. Apply to tissue section for 10-20 minutes or until desired stain intensity is achieved.
 WARNING: Handle with care and dispose of according to all regulations.
- 14. Counterstain and coverslip using an aqueous mounting media.

Troubleshooting Guide

Overstaining:

- Concentration of the primary antibody was too high or the incubation time was too long.
- 2. Temperature during incubation was too high.
- 3. Incubation time with link antibody or streptavidin/enzyme label was too long.

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Nonspecific Background Staining:

- 1. Rinsing between steps was inadequate.
- 2. Tissue was allowed to dry with reagents on.
- 3. Folds in tissue trapped reagents.
- 4. Tissue contains endogenous alkaline phosphatase.
- 5. Tissue contains endogenous biotin.
- 6. Antigen migrated in tissue.
- 7. Excessive tissue adhesive on slides.
- 8. 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 water between steps, resulting in dilution of reagents.
- 4. Counterstain or mounting media were incompatible and dissolved the chromogen reaction product.
- Room temperature was excessively cool.
- 6. The primary antibody does not recognize an antigen that survives fixation and embedding in high enough amounts.
- 7. Excessive incubation with protein block (Super Block).

No Staining:

- 1. Steps were inadvertently left out.
- 2. There is no antigen in the tissue.
- 3. The primary antibody is not of mouse, rat, rabbit or guinea pig origin.
- 4. Chromogenic substrate has been replaced with another that is not intended for use with alkaline phosphatase.