



UltraVision ONE Detection System AP Polymer & Fast Red Chromogen

Cat. No.: TL-015-AFJ 75-150 Slides

Description: UltraVision One is a robust one-step polymer system that provides increased sensitivity, time savings and detection simplicity. The UltraVision One AP polymer is an innovative, patented technology. It consists of smaller amino acid polymer subunits that minimize conflicts in binding the target protein. Decreased binding conflicts result in more consistent staining and better signal amplification. Ultimately, this gives the user higher sensitivity and antibody efficiency. UltraVision One AP polymer, allows the use of less antibody to obtain better signal-to-noise ratios. This system is also biotin-free, which eliminates background staining found with traditional biotin-based detection methods.

Intended Use: This UltraVision One AP polymer detection system detects rabbit and mouse immunoglobulins bound to an antigen in tissue sections. The specific primary antibody is located by an universal secondary antibody polymer formulation. The amino acid polymer is conjugated to alkaline phosphatase and the Fab fragments of goat anti-rabbit and goat anti-mouse. The polymer complex is then visualized with an appropriate substrate/chromogen

Staining Protocol (kit components in bold):

1. Deparaffinize and rehydrate tissue section.
2. Wash 2 times in buffer.
3. If required, incubate tissue in digestive enzyme (or appropriate pretreatment).
4. Wash 4 times in buffer.
5. Optional: Apply **Ultra V Block** 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. (May be omitted if primary antibodies are diluted in buffers containing 5-10% normal goat serum.)
6. Wash (Optional).
7. Apply primary antibody and incubate according to manufacturer's recommended protocol.
8. Wash 4 times in buffer.
9. Incubate with **UltraVision One AP Polymer** for 30 min at room temperature.
10. Wash 4 times in buffer.
11. Prepare the working solution liquid fast red immediately before use and use within 15 minutes of preparation or decreased sensitivity may result.
12. Add 1 drop (40 µl) of **Liquid Fast Red Chromogen** to 3 ml of **Naphthol Phosphate Substrate** and mix it well.
13. Apply solution to tissue section and incubate tissue section for 10-25 minutes.
14. Wash 4 times in DI water.
15. Counterstain and coverslip using an aqueous or permanent mounting media.

Storage: Store at 2-8°C. Each component is stable for 18 months.