



## UltraVision ONE Detection System HRP Polymer & DAB Plus Chromogen

**Cat. No. TL-015-HDJ**

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 HRP 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 HRP 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 HRP 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 horseradish peroxidase 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. To reduce nonspecific background staining due to endogenous peroxidase, incubate slide in Hydrogen Peroxide Block for 10-15 minutes.
6. Wash 4 times in buffer.
7. 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.)
8. Wash (Optional).
9. Apply primary antibody and incubate according to manufacturer's recommended protocol.
10. Wash 4 times in buffer.
11. Apply **UltraVision ONE HRP Polymer** and incubate for 30 minutes at room temperature. (NOTE: HRP Polymer is light sensitive. Please avoid unnecessary light exposure and store in opaque vial.)
12. Wash 4 times in buffer.
13. Add 1 drop (40 µl) **DAB Plus Chromogen** to 2 ml of **DAB Plus Substrate**, mix by swirling and apply to tissue. Incubate for 5-15 minutes, depending on the desired stain intensity.
14. Wash 4 times in DI water.
15. Counterstain and coverslip using a permanent mounting media

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