

Prion IHC Assay Kit A
Antibody and Detection Reagents
Control Number: 902-IPR5030K-082917

Catalog Number: IPR 5030K G15
Description: approximately 50 tests on the intelliPATH automated slide stainer

Intended Use: Research Use Only. Not for use in diagnostic procedures.

Summary & Explanation: The mouse anti-prion monoclonal antibody F99 has been shown to recognize a conserved epitope (QYQRES) on the ruminant prion protein in tissues from sheep, cattle, mule deer, elk and white-tailed deer. The antibody may be useful in detecting agents of transmissible spongiform encephalopathies (TSEs) (1-4).

The Prion IHC Assay Kit A consists of anti-prion antibody, blocking reagents, alkaline phosphatase polymer detection and chromogen reagents. The kit contains reagent quantities sufficient for immunohistochemistry of approximately 50 formalin-fixed paraffin-embedded tissues. The kit is configured for use on the intelliPATH Automated Slide Stainer.

Prion IHC Assay Kit B (IPR5033KG80, provided separately) contains hematoxylin counterstain and bluing solution.

- Supplied As:**
1. intelliPATH™ anti-Prion Protein MAb F99, IPR3047G15, 15 mL
 2. intelliPATH™ Prion Blocker, IPR5028G15, 15 mL
 3. intelliPATH™ Prion AP Polymer Detection, IPR5029G15, 15 mL
 4. intelliPATH™ Warp Red Chromogen, IPC5022G3, 3 mL
 5. intelliPATH™ Warp Red Buffer, IPBF5023G20, 2x20 mL
 6. intelliPrep Solution, IPA5018G20, 2x20 mL
 7. intelliPATH™ Warp Red Mixing Vial, IP5024MV
 8. intelliPATH™ Warp Red Chromogen Vial, IPC5022VL

Staining Protocol Recommendations: Refer to the intelliPATH Automated Slide Stainer Manual for detailed instructions on its use, including programming protocols, starting a staining run and instrument maintenance. Please contact Biocare Medical Technical Support with questions.

- Biocare Recommended Protocol:**
- Pretreatment:** Perform heat retrieval at 121°C for 20 minutes, using Biocare’s Diva Decloaker. Refer to the Diva Decloaker product data sheet for additional instructions.
- Primary Antibody:** Incubate for 40 minutes with anti-Prion Protein MAb F99 at RT, followed by three (3) washes with TBS Buffer.
- Protein Block:** Incubate for 20 minutes at RT with Prion Blocker, followed by two (2) washes with TBS Buffer.
- Polymer Detection:** Incubate for 20 minutes at RT using Prion AP Polymer Detection followed by two (2) washes with TBS Buffer.
- Chromogen:** Incubate for 14 minutes at RT with Warp Red, followed by two (2) washes with TBS Buffer.
- Counterstain:** Counterstain with Prion Counterstain for 5 minutes, followed by two (2) washes with TBS Buffer. Apply Prion Bluing Solution for 4 minutes, followed by two (2) washes with TBS Buffer. Rinse twice with deionized water.

Storage and Stability: Store at 2°C to 8°C. Do not use after expiration date printed on vial. If reagents are stored under conditions other than those specified in the package insert, they must be verified by the user.

Limitations: This product is provided for Research Use Only (RUO) and is not for use in diagnostic procedures. Suitability for specific applications may vary and it is the responsibility of the end user to determine the appropriate application for its use.

- Precautions:**
1. This antibody contains less than 0.1% sodium azide. Concentrations less than 0.1% are not reportable hazardous materials according to U.S. 29 CFR 1910.1200, OSHA Hazard communication and EC Directive 91/155/EC. Sodium azide (NaN₃) used as a preservative is toxic if ingested. Sodium azide may react with lead and copper plumbing to form highly explosive metal azides. Upon disposal, flush with large volumes of water to prevent azide build-up in plumbing. (Center for Disease Control, 1976, National Institute of Occupational Safety and Health, 1976) (5)
 2. This product contains less than 0.25% Proclin 950 and Proclin 300. Overexposure to Proclin can cause skin and eye irritation and irritation to mucous membranes and upper respiratory tract.
 3. Specimens, before and after fixation, and all materials exposed to them should be handled as if capable of transmitting infection and disposed of with proper precautions. Never pipette reagents by mouth and avoid contacting the skin and mucous membranes with reagents and specimens. If reagents or specimens come in contact with sensitive areas, wash with copious amounts of water. (6)
 4. Microbial contamination of reagents may result in an increase in nonspecific staining.
 5. Do not use reagent after the expiration date printed on the vial.
 6. The MSDS is available upon request and is located at <http://biocare.net/support/msds/>.

Technical Support: Contact Biocare’s Technical Support at 1-800-542-2002 for questions regarding this product.

- References:**
1. O'Rourke, K.I., *et al.* Preclinical diagnosis of scrapie by immunohistochemistry of third eyelid lymphoid tissue. *J. Clin. Microbiol.* 2000 Sept; 38(9):3254-9.
 2. Spraker, T.R., *et al.* Validation of monoclonal antibody F99/97.6.1 for immunohistochemical staining of brain and tonsil in mule deer (*Odocoileus hemionus*) with chronic wasting disease. *J. Vet. Diagn. Invest.* 2002 Jan; 14(1):3-7.
 3. Nonno, R., *et al.* Molecular analysis of cases of Italian sheep scrapie and comparison with cases of bovine spongiform encephalopathy (BSE) and experimental BSE in sheep. *J. Clin. Microbiol.* 2003 Sept; 41(9):4127-4133.
 4. Valdez, R.A., *et al.* Immunohistochemical detection and distribution of prion protein in a goat with natural scrapie. *J. Vet. Diagn. Invest.* 2003 Mar; 15(2):157-162 (Mar. 2003).
 5. Center for Disease Control Manual. Guide: Safety Management, NO. CDC-22, Atlanta, GA. April 30, 1976 "Decontamination of Laboratory Sink Drains to Remove Azide Salts."
 6. Clinical and Laboratory Standards Institute (CLSI). Protection of Laboratory Workers from Occupationally Acquired Infections; Approved guideline-Third Edition CLSI document M29-A3 Wayne, PA 2005.

May be subject to one or more of the following US Pat Nos. 6,165,784; 6,261,790; 6,514,707, or New Zealand Patent No. 503875.

LICENSED FOR USE WITH **NON-BOVINE TISSUES ONLY**. USE OF THIS PRODUCT FOR TESTING BOVINE (COW) TISSUES IS STRICTLY PROHIBITED.

FOR DISTRIBUTION ONLY IN THE UNITED STATES.