Treponema pallidum (Spirochete)

Concentrated and Prediluted Polyclonal Antibody
902-135-072623

BIOCARE MEDICAL

Available Product Formats				
Format	Catalog Number	Description	Dilution	Diluent
Concentrate	CP 135 A, B, C	0.1, 0.5, 1.0 mL	1:100	Da Vinci Green
Predilute	PP 135 AA	6.0 mL	Ready-to-use	N/A
intelliPATH FLX	IPR 135 G10	10 mL	Ready-to-use	N/A
UltraLine	AVR 135 G	6.0 mL	Ready-to-use	N/A
Q Series	ALR 135 G7	7.0 mL	Ready-to-use	N/A

Intended Use:
For Research Use Only. Not for use in diagnostic procedures.
This rabbit antibody is intended to detect *Treponema pallidum* (Spirochete) proteins.

Background Information: Treponema pallidum is a spirally twisted (Spirochete) bacterium known as the causative organism of the sexually transmitted infection syphilis. Since T. pallidum has never been successfully cultured on artificial media, historically, its identification depended on direct visualization of the organism in tissue with silver stains such as Steiner's or Warthin-Starry. T. pallidum has been shown to be successfully visualized by immunohistochemical staining on formalin-fixed paraffin-embedded (FFPE) tissue.

Known Applications:
Immunohistochemistry (Formalin-fixed paraffin-embedded tissues). Other applications have not been tested.

Supplied As: Buffered saline solution, pH 7.2-7.4, containing a protein carrier and less than 0.1% sodium azide preservative. See Safety Data Sheet for additional details.

Materials and Methods:

Reagents Provided:
Host Source: Rabbit polyclonal
Species Reactivity: Human; other species not tested.
Clone: N/A
Isotype: N/A
Protein Concentration: Lot specific Ig concentration is not available.
Specificity: *Treponema pallidum* (Spirochete)

Reconstitution, Mixing, Dilution, and Titration:
Prediluted antibody reagent is optimally diluted for use with above listed staining systems. Further dilution may result in loss of antigen staining. The user must validate any such change. Differences in tissue processing and technical procedures in the user's laboratory may produce significant variability in results necessitating regular performance of in-house controls. Concentrated reagent requires dilution as indicated in table above.

Storage and Stability:
Store at 2ºC to 8ºC. The product is stable to the expiration date printed on the vial label when stored under these conditions. Do not use after expiration date. Storage under any condition other than those specified must be verified. Diluted reagents should be used promptly; store any remaining reagent at 2ºC to 8ºC. The stability of user diluted reagent has not been established by Biocare.

Staining Protocol Recommendations (intelliPATH FLX® and manual use):
Below are programming and protocol recommendations to assist the user when staining manually and/or using Biocare's intelliPATH FLX Automated Staining Platform for research applications. The user is responsible for further optimizations of the protocol.

Staining Protocol Recommendations (intelliPATH FLX® and manual use) Cont'd:
Peroxide Block: Block for 5 minutes with a peroxide blocking reagent.
Pretreatment: Perform heat retrieval if applicable. When using automated equipment, refer to the equipment operator's manual for specific equipment use instructions.
Protein Block (Optional): Incubate for 5-10 minutes at RT with a protein blocking reagent.
Primary Antibody: Incubate for 30 minutes at RT.
Probe: N/A
Polymer: Incubate for 30 minutes at RT with a secondary-conjugated polymer.
Chromogen: Incubate for 5-7 minutes at RT with desired chromogen.
Counterstain: Counterstain with hematoxylin. Rinse with deionized water. Apply Bluing Solution for 1 minute. Rinse with deionized water.
intelliPATH FLX Automated Slide Stainer:
IPR135 is intended for use with the intelliPATH FLX. Refer to the User Manual for specific instructions for use. When using the intelliPATH FLX, peroxide block with intelliPATH FLX Peroxidase Blocking Reagent (IPB5000) may be performed following pretreatment.
Technical Note:
This antibody, for intelliPATH FLX and manual use, has been standardized with MACH 4 detection system. Use TBS for washing steps.

Staining Protocol Recommendations (UltraLine):
AVR135 is compatible with the Ventana Benchmark IHC staining platforms for research applications. Refer to the User Manual for specific instructions for use in optimizing protocols.

Staining Protocol Recommendations (Q Series):
ALR135 is compatible with the Leica IHC staining platforms for research applications. Refer to the User Manual for specific instructions for use in optimizing protocols.

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 (NaN_3) 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)[1]
2. Handle materials of human or animal origin as potentially biohazardous and dispose of such materials with proper precautions. In the event of exposure, follow the health directives of the responsible authorities where used.[2,3]

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Precautions Cont'd:
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 into contact with sensitive areas, wash with copious amounts of water.[4]
4. Microbial contamination of reagents may result in an increase in nonspecific staining.
5. Incubation times or temperatures other than those specified may give erroneous results. The user must validate any such change.
6. Do not use reagent after the expiration date printed on the vial.
7. Follow local and/or state authority requirements for method of disposal.
8. The SDS is available upon request and is located at http://biocare.net.

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

References:
1. 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."
2. Occupational Safety and Health Standards: Occupational exposure to hazardous chemicals in laboratories. (29 CFR Part 1910.1450). Fed. Register.
3. Directive 2000/54/EC of the European Parliament and Council of 18 September 2000 on the protection of workers from risks related to exposure to biological agents at work.
4. Clinical and Laboratory Standards Institute (CLSI). Protection of Laboratory Workers from Occupationally Acquired Infections; Approved Guideline-Fourth Edition CLSI document M29-A4 Wayne, PA 2014.