HPV Cocktail Broad Spectrum (HPV-1, 6, 11, 16, 18 and 31)
Concentrated and Prediluted Cocktail Antibody
Control Number: 902-177-082514

Catalog Number: CM 177 BK, CK
PM 177 AA

Description: 0.5, 1.0 ml, concentrated 6.0 ml, prediluted
Dilution: 1:100-1:200 Ready-to-use
Diluent: HPV Diluent N/A

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

Summary and Explanation:
The broad spectrum HPV antibody was produced (1H8) against SDS-disrupted bovine papillomavirus type 1 (BPV-1) and used to identify the product of the L1 open reading frame (ORF) of BPV-1. IH8 was found to be reactive with purified major capsid protein (MCP). The antibody was tested with ELISA and with an immunofluorescent technique and detected HPV-1, 6, 11, 16, 18, and 31 in formalin-fixed paraffin embedded biopsy specimens. The CAMVIR-1 antibody was raised against the major capsid protein L1 of human papillomavirus type 16, using a recombinant vaccinia virus that expresses the L1 protein, as a target for screening. This antibody reacted with a 56 kilodalton protein in cells infected with L1-vaccinia virus, and the protein was present in HPV16. A panel of p16 and Ki-67 can be used for further evaluation.

CAMVIR-1 may also be used separately for phenotyping HPV-16. Other HPV isotypes may also be reactive with the Broad Spectrum HPV antibody, but have not been tested.

Source: Mouse monoclonal
Species Reactivity: Human; others not tested
Clone: BPV-1/1H8 + CAMVIR-1
Isotype: IgG + IgG2a
Total Protein Concentration: ~10 mg/ml. Call for lot specific Ig concentration.
Epitope/Antigen: HPV Cocktail Broad Spectrum (HPV-1, 6, 11, 16, 18 and 31)
Cellular Localization: Nuclear
Positive Control: Infected cervical biopsy

Known Applications:
Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

Supplied As: Buffer with protein carrier and preservative
HPV Diluent (PD906)

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. Diluted reagents should be used promptly; any remaining reagent should be stored at 2°C to 8°C.

Staining Protocol Recommendations:

Peroxide Block: Block for 5 minutes with Biocare's Peroxidized 1.

Pretreatment Solution (recommended): Reveal or Diva

Pretreatment Protocol:
Heat Retrieval Method: Retrieve sections under pressure using Biocare's Decloaking Chamber, followed by a wash in distilled water; alternatively, steam tissue sections for 45-60 minutes. Allow solution to cool for 10 minutes then wash in distilled water.

Protein Block: Incubate for 5-10 minutes at RT with Biocare's Background Pannerish.

Primary Antibody: Incubate for 30 minutes at RT.

Probe: Incubate for 10 minutes at RT with a secondary probe.

Polymer: Incubate for 10 minutes at RT with a tertiary polymer.

Chromogen:
Incubate for 5 minutes at RT with Biocare's DAB – OR – Incubate for 5-7 minutes at RT with Biocare's Warp Red.

Counterstain:
Counterstain with hematoxylin. Rinse with deionized water. Apply Tacha's Bluing Solution for 1 minute. Rinse with deionized water.

Technical Note:
This antibody has been standardized with Biocare's MACH 4 detection system. It can also be used on an automated staining system and with other Biocare polymer detection kits. Use TBS buffer for washing steps.

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) (2)
2. 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. (3)
3. Microbial contamination of reagents may result in an increase in nonspecific staining.
4. Incubation times or temperatures other than those specified may give erroneous results. The user must validate any such change.
5. Do not use reagent after the expiration date printed on the vial.
6. 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: