Overview

Product name
- Anti-HPV antibody [BPV-1/1H8 + CAMVIR]

Description
- Mouse monoclonal [BPV-1/1H8 + CAMVIR] to HPV

Host species
- Mouse

Specificity
- The BPV-1/1H8 clone recognizes HPV-1, 6, 11 and 16. The CAMVIR clone recognizes HPV-16, 18 and 31.
- Other HPV isotypes may also be reactive with the Broad Spectrum HPV antibody, but have not been tested.

Tested applications
- Suitable for: IHC-P, ELISA, WB

Species reactivity
- Reacts with: Human papillomavirus

Immunogen
- This product was produced with the following immunogens:
  - Recombinant full length protein. 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.
  - Tissue, cells or virus. The BPV-1/1H8 antibody was raised against SDS-disrupted bovine papillomavirus type 1 (BPV-1)

Positive control
- IHC-P: Infected cervical biopsy tissue. WB: Control and DCT siRNA transfected HaCaT cell lysate.

General notes
- Please note that this antibody is an oligoclonal antibody. It is a cocktail of monoclonal antibodies that have been carefully selected. Oligoclonal antibodies have not only the specificity and batch-to-batch consistency of a monoclonal antibody, but also have the advantage of the sensitivity of a polyclonal antibody due to their ability to recognize multiple epitopes on an antigen. This cocktail is a mix of BPV-1/1H8 (IgG) and CAMVIR (IgG2a).

- 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. 1H8 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. This antibody cocktail may also work in PAP smears, but has not been tested.
- A panel of p16 and Ki-67 can be used for further evaluation.
Form: Liquid

Storage instructions: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Storage buffer: pH: 7.30
Preservatives: Proprietary preservative, 0.09% Sodium azide
Constituents: PBS, Tissue culture supernatant

Clonality: Monoclonal
Clone number: BPV-1/1H8 + CAMVIR
Myeloma: unknown
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab2417 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>IHC-P</td>
<td>1/80 - 1/160. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.</td>
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<tr>
<td>ELISA</td>
<td>Use at an assay dependent dilution.</td>
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<tr>
<td>WB</td>
<td>Use at an assay dependent concentration. PubMed: 22479413</td>
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Target

Relevance: Human papillomaviruses (HPV) are small DNA viruses which infect epithelia of the skin and mucosa. Over 90 types have been identified and they mostly cause a variety of benign lesions such as warts and verrucae. However, some subtypes, notably types 16 and 18, 31 and 33, have been confirmed as agents which cause cervical cancer.

Cellular localization: Nuclear

Images
Western blot analysis of L1 and actin levels in (A) uninfected, control and DCT siRNA transfected HaCaTs.

Ab2417 staining HPV-infected human cervix tissue sections.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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