**p120 Catenin**

Concentrated and Prediluted Monoclonal Antibody

901-3008-040319

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<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Description</th>
<th>Dilution</th>
<th>Diluent</th>
<th>Intended Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>API 3008 AA</td>
<td>0.1, 0.5 mL, conc.</td>
<td>1:100</td>
<td>Renoir Red</td>
<td>For In Vitro Diagnostic Use</td>
</tr>
<tr>
<td>VLTM 3008 G20</td>
<td>6.0 mL, RTU</td>
<td>N/A</td>
<td>N/A</td>
<td>For IntelliPATH FLX and manual use, for IntelliPATH FLX and manual use,</td>
</tr>
</tbody>
</table>

- **Epitope/Antigen:** p120 catenin
- **Cellular Localization:** Cytoplasm & cell membrane
- **Positive Tissue Control:** Breast cancer

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

**Supplier As:** Buffer with protein carrier and preservative

**Storage and Stability:**
- Store at 2°C to 8°C. The product is stable to the expiration date printed on the label, when stored under these conditions. Do not use after expiration date. Diluted reagents should be used promptly; any remaining reagent should be stored at 2°C to 8°C.

**Protocol Recommendations (VALEN® Automated Slide Staining Platform):**
- VLTM3008 is intended for use with the VALEN®. Refer to the User Manual for specific instructions for use. Protocol parameters in the Protocol Manager should be programmed as follows:
  - Deparaffinization: Deparaffinize for 8 minutes with Val DePar.
  - Pretreatment: Perform heat retrieval at 98°C for 60 minutes using Val AR-Hi pH, 5X (use at 1X).
  - Peroxidase Block: Block for 5 minutes with Val Peroxidase Block.
  - Protein Block (Optional): Incubate for 10-20 minutes at RT with Val Background Block.
  - Primary Antibody: Incubate for 30 minutes.
  - Secondary: Incubate for 10 minutes with Val Mouse Secondary.
  - Linker: Incubate for 10 minutes with Val Universal Linker.
  - Polymer: Incubate for 10 minutes with Val Universal Polymer.
  - Chromogen: Incubate for 5 minutes with Val DAB.
  - Counterstain: Counterstain for 5 minutes with Val Hematoxylin.
  - **Protocol Recommendations (intelliPATH FLX® and manual use):**
    - Peroxide Block: Block for 5 minutes with Peroxidized 1.
    - Pretreatment: Perform heat retrieval using Reveal or Diva Decloaker. Refer to the Reveal or Diva Decloaker data sheet for specific instructions.
    - Protein Block (Optional): Incubate for 10 minutes at RT with Background Punisher.
    - Primary Antibody: Incubate for 30 minutes at RT.
    - Probe: Incubate for 10 minutes at RT with a secondary probe.
    - Polymer: Incubate for 10-20 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 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, for intelliPATH FLX and manual use, has been standardized with MACH 4 detection system. Use TBS for washing steps.

**Protocol Recommendations (Ventana BenchMark ULTRA):**
- API3008 is compatible for use with the BenchMark ULTRA. Refer to the User Manual for specific instructions for use. Recommended protocol parameters are as follows:
  - Template/Detection: OptView DAB IHC
  - Pretreatment Protocol: CC1 32 minutes
  - Peroxidase: Pre Primary Peroxidase Inhibitor
  - Primary Antibody: 16 minutes, 36°C

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**Intended Use:**
- For In Vitro Diagnostic Use

**p120** is a mouse monoclonal antibody that is intended for laboratory use in the qualitative identification of p120 catenin protein by immunohistochemistry (IHC) in formalin-fixed paraffin-embedded (FFPE) human tissues. The clinical interpretation of any staining or its absence should be complemented by morphological studies using proper controls and should be evaluated within the context of the patient's clinical history and other diagnostic tests by a qualified pathologist.

**Summary and Explanation:**
- p120 is a proliferation-associated nucleolar protein found in most human malignant tumors, but not in resting normal cells. The expression of p120 has been statistically correlated with the proliferation capacity in human lung cancer cells and could be a prognostic marker for resected Stage I lung adenocarcinoma. In colorectal cancer the altered localization of p120 catenin has been found to correspond with loss of cytoplasmic localization of E-cadherin and has been associated with a significant reduction in patient survival time and an increase in tumor stage and lymph node metastasis. This data highlights the importance of both p120 catenin and E-cadherin in the progression of colorectal carcinoma. The distinction between lobular and ductal lesions of the breast is important in several circumstances. Diagnostic reproducibility of lobular vs. ductal lesions, based on histology alone, is less than optimal. The proper distinction between atypical lobular hyperplasia, lobular carcinoma in situ and low-grade ductal carcinoma in situ is critical for patient management. E-cadherin, a negative membrane marker for lobular neoplasia, is useful in the distinction of ductal neoplasia vs. lobular; however as a negative marker for lobular carcinoma, it can be difficult to interpret, particularly in challenging cases. Studies have shown accurate categorization of ductal vs. lobular neoplasia in the breast was achieved with p120 staining and helped give further clarification in the separation of low-grade ductal carcinoma in situ from lobular neoplasia. Diagnostically, p120 can be particularly useful in identifying early lesions of lobular neoplasia. Studies have also shown that altered expression of p120 catenin predicts poor outcome in invasive breast cancer.

**Principle of Procedure:**
- Antigen detection in tissues and cells is a multi-step immunohistochemical process. The initial step binds the primary antibody to its specific epitope. After labeling the antigen with a primary antibody, a one-, two- or three-step detection procedure can be employed. The one-step procedure will feature an enzyme-labeled polymer that binds to the primary antibody. A two-step procedure will feature a secondary antibody added to bind to the primary antibody. An enzyme-labeled polymer is then added to bind to the secondary antibody. The three-step detection procedure will feature a secondary antibody added to bind to the primary antibody followed by a linker antibody step for maximum binding. An enzyme-labeled polymer is then added to bind to the linker antibody. These detections of the bound antibodies are evidenced by a colorimetric reaction.

**Source:** Mouse monoclonal

**Species Reactivity:** Human; others not tested

**Clone:** 98/pp120

**Isotype:** IgG1

**Protein Concentration:** Call for lot specific IgG concentration.

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- This antibody, for intelliPATH FLX and manual use, has been standardized with MACH 4 detection system. Use TBS for washing steps.

**Protocol Recommendations (ventana BenchMark ULTRA):**
- API3008 is compatible for use with the BenchMark ULTRA. Refer to the User Manual for specific instructions for use. Recommended protocol parameters are as follows:
  - Template/Detection: OptVue DAB IHC
  - Pretreatment Protocol: CC1 32 minutes
  - Peroxidase: Pre Primary Peroxidase Inhibitor
  - Primary Antibody: 16 minutes, 36°C
Limitations:
The optimum antibody dilution and protocols for a specific application can vary. These include, but are not limited to fixation, heat-retrieval method, incubation times, tissue section thickness and detection kit used. Due to the superior sensitivity of these unique reagents, the recommended incubation times and titers listed are not applicable to other detection systems, as results may vary. The data sheet recommendations and protocols are based on exclusive use of Biocare products. Ultimately, it is the responsibility of the investigator to determine optimal conditions.

Quality Control:

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) (8)
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 into contact with sensitive areas, wash with copious amounts of water. (9)
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.

Troubleshooting:
Follow the antibody specific protocol recommendations according to data sheet provided. If atypical results occur, contact Biocare's Technical Support at 1-800-542-2002.

References:

References Cont’d:

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