P504S (P)  
Concentrated and Prediluted Polyclonal Antibody  
902-200-042018

<table>
<thead>
<tr>
<th>Catalog Number:</th>
<th>Description:</th>
<th>Dilution:</th>
<th>Diluent:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP 200 A, B, C</td>
<td>0.1, 0.5, 1.0 ml, concentrated</td>
<td>1:100</td>
<td>Renaissance Background</td>
</tr>
<tr>
<td>PP 200 AA, H</td>
<td>6.0, 25 ml, prediluted</td>
<td>Ready-to-use</td>
<td>N/A</td>
</tr>
<tr>
<td>IPR 200 G10</td>
<td>10 ml, prediluted</td>
<td>Ready-to-use</td>
<td>N/A</td>
</tr>
<tr>
<td>VP 200R G, G25</td>
<td>6.0, 25 ml, prediluted</td>
<td>Ready-to-use</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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

**Summary and Explanation:**  
P504S, also known as α-methylacyl coenzyme A racemase (AMACR), is a peroxisomal and mitochondrial enzyme that plays a role in bile acid synthesis and β-oxidation of branched chain fatty acids (1). P504S was initially identified from a cDNA library as a gene that is overexpressed in human prostate cancer; with little or no expression in normal prostate (2,3). In immunohistochemistry, P504S has been shown to be a specific marker of prostatic adenocarcinoma (2-5). Additionally, prostate glands involved in PIN have been found to express P504S, whereas P504S was nearly undetectable in benign glands (5,6).

**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. A secondary antibody may be applied to bind the primary antibody, followed by an enzyme labeled polymer; or an enzyme labeled polymer may be applied directly to bind the primary antibody. The detection of the bound primary antibody is evidenced by an enzyme-mediated colorimetric reaction.

**Source:**  
Rabbit polyclonal

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

**Clone:**  
N/A

**Isotype:**  
IgG

**Total Protein Concentration:**  
~10 mg/ml. Call for lot specific Ig concentration.

**Epitope/Antigen:**  
P504S

**Positive Tissue Control:**  
Prostate cancer

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

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

**Storage and Stability:**  
Store at 2ºC to 8ºC. 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 2ºC to 8ºC.

**Staining Protocol Recommendations (intelliPATH and manual use) Cont’d:**

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

**intelliPATH™ Automated Slide Stainer:**  
IPR200 is intended for use on the intelliPATH™ Automated Slide Stainer. Refer to the User Manual for specific instructions for use. When using the intelliPATH, peroxide block with intelliPATH Peroxidase Blocking Reagent (IPBS5000) may be performed following heat retrieval.

**Staining Protocol Recommendations (Ventana BenchMark XT/ULTRA Slide Staining Systems):**  
VP200R is intended for use with the Ventana BenchMark XT / ULTRA Slide Staining Systems. Refer to the User Manual for specific instructions for use. Recommended protocol parameters are as follows:

1. Using ultraView on XT / ULTRA:
   - **Template/Detection:** ultraView DAB
   - **Pretreatment Protocol:** CC1 Standard
   - **Primary Antibody:** 32 minutes, 37°C
   - **ultraBlock (V-Blocker BRI4001):** Incubate for 4 minutes (with appropriate Option # registered by user).
   - **V-Blocker is recommended to be applied prior to any detection system.

2. Using OptiView on ULTRA:
   - **Template/Detection:** OptiView DAB IHC
   - **Pretreatment Protocol:** CC1 32 minutes
   - **Primary Antibody:** 16 minutes, 36°C

**Technical Note:**  
This antibody, for intelliPATH and manual use, has been standardized with Biocare's MACH 4 detection system. Use TBS 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) (7)

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. (8)
Precautions Cont’d:
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:

VP Echelon Series antibodies are developed solely by Biocare Medical LLC and do not imply approval or endorsement of Biocare’s antibodies by Ventana Medical Systems, Inc. Biocare and Ventana are not affiliated, associated or related in any way. Ventana®, BenchMark®, ultraView and OptiView are trademarks of Roche.