P504S-2X  
Prediluted Polyclonal Antibody  
Control Number: 902-365-092617

Catalog Number: APR 365 AA, H, JJ  
Description: 6.0, 25, 50 ml prediluted  
Dilution: Ready-to-use  
Diluent: N/A

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 prostatic intraepithelial neoplasia (PIN) have been found to express P504S; whereas, in most cases, P504S was negative in benign glands (5-6).

Source: Rabbit polyclonal  
Species Reactivity: Human  
Clone: N/A  
Isotype: N/A

Total Protein Concentration: ~10 mg/ml. Call for lot specific Ig concentration  
Epitope/Antigen: P504S  
Cellular Localization: Granular cytoplasm  
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 verified by the user. Diluted reagents should be used promptly; any remaining reagent should be stored at 2ºC to 8ºC.

Staining Protocol Recommendations:  
Peroxide Block:  
Block for 5 minutes with Biocare's Peroxidazed 1.  
Protein Block: Incubate for 10 minutes at RT with Biocare's Background Punisher.  
Primary Antibody: Incubate for 15 - 20 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) (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)  
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 MSDS is available upon request and is located at http://biocare.net/support/msds/.  

Technical Support:  
Contact Biocare's Technical Support at 1-800-542-5202 for questions regarding this product.

References:  
