

P504S (P)

Prediluted Polyclonal Antibody Control Number: 903-200VP-042315

VP EchelonTM Series

Catalog Number: AVA 200 G, G25 **Description:** 6.0, 25.0 ml, prediluted

Dilution: N/A

Intended Use:

Analyte Specific Reagent. Analytical and performance characteristics are not established.

Summary & 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).

Source: Rabbit polyclonal

Clone: N/A Isotype: IgG

Known Applications:

Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

Supplied As:

Buffer with protein carrier and preservative

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.

Analyte Specific Reagent Note:

Biocare's VP Echelon Series of predilutes have been developed for use with Ventana® Medical Systems, BenchMark® Immunohistochemistry Staining System in combination with Ventana® Detection Kits and Ventana® Prep Kit Dispensers. However, it is the responsibility of the laboratory or end-user to develop their own protocol and label appropriate disclaimer.

References:

- 1. Ferdinandusse S, et al. Subcellular localization and physiological role of α- methylacyl-CoA racemase. J Lipid Res. 2000; 41:1890-6.
- 2. Xu J, et al. Identification of Differentially Expressed Genes in Human Prostate Cancer Using Subtraction and Microarray. Cancer Res. 2000; 60:1677-82.
- 3. Rubin MA, et al. α-Methylacyl Coenzyme A Racemase as a Tissue Biomarker for Prostate Cancer. JAMA. 2002; 287:1662-70.
- 4. Luo J, et al. Alpha-methylacyl-CoA racemase: a new molecular marker for prostate cancer. Cancer Res. 2002; 62:2220-6.
- 5. Zhou M, et al. Alpha-Methylacyl-CoA Racemase A Novel Tumor Marker Overexpressed in Several Human Cancers and Their Precursor Lesions. Am J Surg Pathol. 2002; 26:926-31.
- 6. Wu CL, et al. Analysis of α-Methylacyl-CoA Racemase (P504S) Expression in High-Grade Prostatic Intraepithelial Neoplasia. Hum Pathol. 2004; 35:1008-13.
- 7. Center for Disease Control Manual. Guide: Safety Management, NO. CDC-22, Atlanta, GA. April 30, 1976 "Decontamination of Laboratory Sink Drains to Remove Azide Salts."
- 8. Clinical and Laboratory Standards Institute (CLSI). Protection of Laboratory Workers from Occupationally Acquired Infections; Approved Guideline-Fourth Edition CLSI document M29-A4 Wayne, PA 2014.

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