P504S (P)

Concentrated and Prediluted Polyclonal Antibody 903-200-050719



Catalog Number:	ACA 200 A, B, C	APA 200 AA, H	IPA 200 G10	AVA 200 G, G25	VLTRZ 200 G20
Description:	0.1, 0.5, 1.0 mL, conc.	6.0, 25 mL, RTU	10 mL, RTU	6.0, 25 mL, RTU	20 mL, RTU
Dilution:	1:100	Ready-to-use	Ready-to-use	Ready-to-use	Ready-to-use
Diluent:	Renaissance Background Reducing	N/A	N/A	N/A	N/A

Intended Use:

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

Summary & Explanation:

P504S, also known as a-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. 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.

References:

1. Ferdinandusse S, *et al.* Subcellular localization and physiological role of a-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.* a-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 a-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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