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

**Intended Use:**
Analyte Specific Reagent. Analytical and performance characteristics have not been 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 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

**Clone:** N/A

**Isotype:** N/A

**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. Diluted reagents should be used promptly; any remaining reagent should be stored at 2°C to 8°C.

**Dilution:** Ready-to-use

**Diluent:** N/A

**Analyte Specific Reagent Note:**
The P504S antibody has been quality controlled by IHC using Biocare’s MACH 4 Detection System with antigen retrieval. However, it is the responsibility of the laboratory or end-user to develop their own protocol and label appropriate disclaimer.

**References:**