P504S (AMACR) (RM), 2X (13H4)

Format	Catalog No.	Pack size	Dilution
Concentrated	G23600 A, B, C	0.1, 0.5, 1.0 mL	1:100-200
Prediluted	G23600 AA, BB	6.0, 3.0 mL	Ready to use

SPECIES: Rabbit monoclonal

CLONE: 13H4

ISOTYPE: IgG

KNOWN APPLICATIONS - Immunohistochemistry

30-40 min. At RT. Staining of formalin-fixed tissues requires heating tissue sections in between pH 7.4 - 9.0 for 45 min at 95ºC followed by cooling at room temperature for 20 minutes.

SPECIES REACTIVITY : Humans; others not tested.

POSITIVE CONTROL : N/A

CELLULAR LOCALIZATION : N/A

SUPPLIED AS - Buffer with protein carrier and preservative

INTENDED USE: For Research Use Only (RUO).

BACKGROUND –

The peroxisomal and mitochondrial enzyme P504S, also called α-Methylacyl coenzyme A racemase (AMACR), is involved in the formation of bile acids and the β-oxidation of branched chain fatty acids. As a gene that is overexpressed in human prostate cancer and has little to no expression in normal or benign prostate glands, AMACR was first discovered using a cDNA library. P504S has been demonstrated to be a marker of prostatic cancer in immunohistochemistry. Furthermore, P504S has been discovered to be expressed by prostate glands implicated in prostatic intraepithelial neoplasia (PIN), but P504S was essentially undetectable in benign glands.

MICROBIOLOGICAL STATE : This product is not sterile.

LIMITATIONS AND USES:

1. Not to be consumed internally
2. This product is designed for qualitative immunohistochemistry using formalin-fixed, paraffin-embedded
3. tissue sections from both normal and malignant tissues, which will be examined under a light microscope.
4. If the reagent gets hazy, don't use it.
5. Never use after the expiration date.
6. When working with reagents, exercise caution.
7. Not sterile.

This product is only intended for research use (RUO); it should not be used for diagnostic purposes. It is up to the end user to choose the right application for their usage, as suitability for particular applications can differ.

Materials Required but not Provided

1. Positive Tissue Control: Routinely processed, neutral buffered formalin-fixed, paraffin-embedded Bladder or urothelial carcinoma
2. Negative tissue control (internal or external)
3. Microscope slides and coverslips
4. Staining jars or baths
5. Timer Instructions for Use (IFU)
6. Xylene or xylene substitute
7. Ethanol or reagent alcohol
8. Deionized or distilled water
9. Heating equipment or enzyme for tissue pretreatment step
10. Detection system
11. Chromogen
12. Wash Buffer
13. Hematoxylin
14. Antibody diluents
15. Peroxide Block
16. Light Microscope
17. Mounting medium
18. Avidin-Biotin Blocking Reagents for use with streptavidin biotin detection

PROCEDURE –

1. **Tissue Section Pretreatment (Necessary):** Citrate Plus pretreatment greatly improves the staining of tissue slices that have been paraffin embedded and fixed with formalin.
2. **Incubation Time for Primary Antibody:** We recommend 30 minutes at room temperature for incubation.
   However, the user should choose the best incubation time based on the staining system used and the fixing circumstances.
3. **Visualisation:** To get the highest staining intensity, we advise combining the "DAB Chromogen/Substrate Bulk Pack (High Contrast)"] with the HRP Lab Pack".

PRECAUTIONS –

1. Avoid pipetting by mouth.
2. Reagents and specimens should not come into touch with skin or mucous membranes.
3. Prevent reagent contamination by microorganisms, as this could lead to an increase in nonspecific staining.
4. There are no dangerous materials in this product.

TECHNICAL SUPPORT

For technical assistance, please contact Genebio Solution's Technical Support at www.genebiosolution.com

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