

p504S/ AMACR (Clone 13H4)**Rabbit Monoclonal Antibody****Cat. #RM-9130-A0, -A1, or -A (0.1ml, 0.5ml, or 1.0ml)** (Purified with BSA and Azide)**Cat. #RM-9130-R7 (7.0ml)** (Ready-to-Use for Immunohistochemical Staining)**Cat. #RM-9130-RQ (12.0ml)** (Ready-to-Use for Automated Immunohistochemical Staining)**Cat. #RM-9130-PCS (5 Slides)** (Positive Control for Histology)**Please note this data sheet has been changed effective December 14, 2011**

Description: Alpha methylacyl-CoA-racemase (AMACR), also known as p504s is an enzyme involved in the metabolism of branched-chain fatty acids. p504s is expressed in various normal tissues and carcinomas, while it is overexpressed over 30-fold in prostate carcinoma compared to benign glandular tissues¹. When p504s is overexpressed in atypical glands without basal cells, it establishes a diagnosis of prostatic carcinoma. High-grade prostatic intraepithelial neoplasia, atypical adenomatous hyperplasia and urothelial carcinoma may also express p504s.

Mol. Wt. of Antigen: estimated at ~45kDa**Species Reactivity:** Human. Others-not tested.**Clone Designation:** 13H4**Ig Isotype / Light Chain:** IgG**Immunogen:** Human AMACR polypeptide.**Applications and Suggested Dilutions:**

- Immunohistochemistry (Formalin/paraffin)
Use Ab at 1:100 for 20 minute at RT, using the LP system and Quanto detection systems, or for 30 minutes at RT, using the UltraVision or UltraVision ONE detection systems
- [Staining of formalin/paraffin tissues is ENHANCED by boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min]
- **Staining tips:** If the staining is too light, use lower dilution or longer time.
If the staining is too strong, use higher dilution or shorter time.

The optimal dilution for a specific application should be determined by the investigator.

Positive Control: Prostate carcinoma.**Cellular Localization:** Cytoplasmic**Storage and Stability:** Ab with sodium azide is stable for 24 months when stored at 2-8°C.**Supplied As:**

Purified antibody diluted in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide.

or

Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

Suggested References:

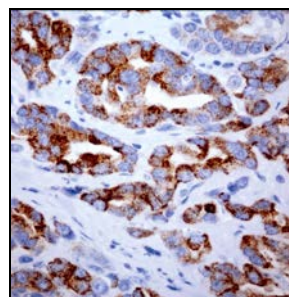
1. Moline V et al. BJU Int. 2006; 97(5):1109-15
2. Evans AJ. J Clin Pathol. 2003 Dec;56(12):892-7
3. Beach R et al. Am J Surg Pathol. 2002 Dec; 26(12): 1588-96

Limitations and Warranty:

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. NeoMarkers is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

Material Safety Data:

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.



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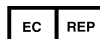
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Human prostate cancer stained with p504s (cat.# RM-9130) using
DAB chromogen. Note cytoplasmic staining of tumor cells.

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