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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PIN-Cocktail 2 --- P504S / p63 / HMW Cytokeratin

nordicmubio.com/products/pin-cocktail-2-p504s-p63-hmw-cytokeratin/PIN002-G

Catalog number: **PIN002-G**

Clone	13H4 / 4A4 / 34 β E12
Isotype	IgG / IgG2a / IgG1
Product Type	Primary Antibodies
Units	5 ml
Host	Rabbit/Mouse
Species Reactivity	Human
Application	Immunohistochemistry (frozen) Immunohistochemistry (paraffin)

Background

The combination of AMACR (P504S), p63, and HMW CK may be extremely useful for diagnosing PIN and small focus adenocarcinoma, especially in difficult cases and cases with limited tissues. The combination of p63 and HMW CK antibodies provides a save method for the detection of basal cells, while AMACR (P504S) labels only carcinoma cells and PIN lesions. P504S (AMACR, Alpha-methylacyl-CoA racemase) is an essential enzyme in the b-oxidation of branched-chain fatty acids. High expression of AMACR protein is found in prostate adenocarcinoma but not in benign prostate tissue by immunohistochemical staining in paraffin-embedded tissue. The expression of AMACR is also detected in prostate premalignant lesions, such as prostate intraepithelial neoplasia (PIN). The p63 protein, a homologue of the tumor-suppressor p53, is highly expressed in the nuclei of basal or progenitor layer of many epithelial tissues. p63 is detected in prostate basal cells in normal prostate glands and PIN. Other markers for basal cells are high molecular cytokeratins (CK 1, 5, 10 and 14), which can be labeled with HMW CK clone 34 β E12. In prostate adenocarcinoma basal cells disappear and staining with both p63 and HMW CK fails. Thus the combination of p63 and HMW CK is a useful tool as differential markers for benign prostate glands and adenocarcinoma (negative marker). 1. Human AMACR (P504S) protein, Alpha-Methylacyl CoA Racemase, 2. human p63 nuclear protein, and 3. high molecular weight cytokeratins (56-57 and 66-68 kDa).

Source

Rabbits were immunized with human recombinant AMACR (P504S) protein, whole sequence (for rabbit monoclonal antibody 13H4); Mice were immunized with recombinant human p63 protein aa 1-205 (for mouse monoclonal antibody 4A4) or a cytokeratin extract of human stratum corneum (for mouse monoclonal antibody 34βE12).

Product

Affinity purified antibodies in PBS, BSA, sodium azide (0.09%)**. Use antibody dilution buffer (e.g. Art. No. PU002) containing sufficient protein and preservative.

Applications

IHC(C, P)

Incubation Time: 60 min at RT

Working Concentration: (RTU) neat

Pre-Treatment: Use formalin-fixed and paraffin-embedded sections; Retrieval conditions: Unmasking fluid T, TEC buffer (Tris/EDTA/Citrate) pH 8 (Art. No. DE005) in a pressure cooker at 100°C 20-40 minutes

Positive Control: Prostatic intraepithelial neoplasia

Storage

2-8°C

Shipping Conditions: Ship at ambient temperature

Caution

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. It may contain hazardous ingredients. Please refer to the Safety Data Sheets (SDS) for additional information and proper handling procedures. Dispose product remainders according to local regulations. This datasheet is as accurate as reasonably achievable, but Exalpha Biologicals accepts no liability for any inaccuracies or omissions in this information.

References

1. Jiang Z, Woda BA, Rock KL et al. (2001) P504S: a new molecular marker for the detection of prostate carcinoma. *Am J Surg Pathol* 25:1397-1404.
2. Weinstein MH, Signoretti S, Loda M (2002) Diagnostic utility of immunohistochemical staining for p63, a sensitive marker of prostatic basal cells. *Mod Pathol*. Dec;15(12):1302-8.
3. Luo J, Shan Zha, Wesley R, et al. (2002) Alpha methylacyl-CoA recemase, a new molecular marker for prostate cancer. *Cancer Res* 62:2220-2226.
4. Yang X.J., Lecksell K., Gaudin P., and Epstein J.I. (1999) Rare expression of high-molekular-weight cytokeratin in adenocarcinoma of the prostate gland: a study of 100 cases of metastatic and locally advanced prostate cancer. *Am. J. Surg. Pathol.* 23(2); 147-152.

Safety Datasheet(s) for this product:

NM_Sodium Azide