

p504s Antibody

Datasheet

For Research Use Only

Description	Catalog No.	Size
p504s Concentrate	FP-A033-01	0.1 ml
p504s Concentrate	FP-A033-10	1 ml
p504s Predilute	FP-A033-70	7 ml

Description

p504s, also known as α -methylacyl coenzyme A racemase (AMACR), is an enzyme localized in the peroxisome and mitochondria, which functions in β -oxidation of branched chain fatty acids, as well as bile synthesis. AMACR has been clinically indicated as a tissue biomarker for prostate cancer and colorectal cancer, as well as high-grade prostatic intraepithelial neoplasia, a precursor lesion of prostate cancer. p504s overexpression has also been detected in a number of other cancers including ovarian, breast, bladder, lung, and renal cell carcinomas, lymphoma, and melanoma.

Specifications

Clone	IHC504
Source	Mouse Monoclonal
Applications	IHC (P)
Formulation	Tris Buffer, pH 7.3 - 7.7, with 1% BSA and <0.1% Sodium Azide

IHC Procedure*

Positive Control Tissue	Prostate Carcinoma
Dilution Range	1:50 – 1:200
Pretreatment	Perform heat-induced epitope retrieval (HIER) at pH for 10 to 30 minutes
Incubation Time and Temp	10 to 30 minutes at room temperature
Detection	Refer to the corresponding user manual for detection system

Result

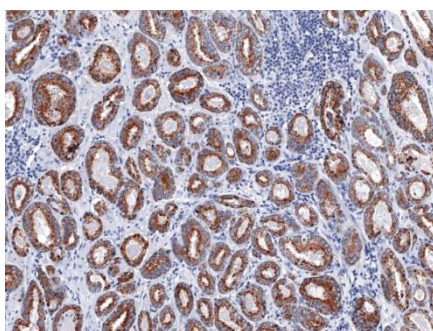


Figure p504s on Prostate Cancer

Storage and Handling

Must store the reagent at 2-8 °C. Do not freeze. Do not use the reagent after expiration date on vial. To ensure proper stability and delivery of the antibody after each run, replace the cap and immediately place the bottle in a refrigerator in an upright position. Positive and negative controls should be simultaneously run with unknown specimens, as there are no conclusive characteristics to suggest instability of the antibody.

Precautions

The product is for research use only. Do not use for diagnosis purpose. Ensure proper handling procedures are used with all reagents. Always wear laboratory coats, disposable gloves, and other appropriate laboratory equipment when handling reagents. Do not ingest reagents, and avoid contact with eyes and mucous membranes. Wash eyes with copious amounts of water if contact occurs.

References

1. **Ferdinandusse S**, et al. “Subcellular localization and physiological role of alpha-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. “alpha-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 over-expressed in several human cancers and their precursor lesions.” *Am J Surg Pathol.* 2002; 26:926-31.
6. **Wu CL**, et al. “Analysis of alpha-methylacyl-CoA racemase (P504S) expression in high-grade prostatic intraepithelial neoplasia.” *Hum Pathol.* 2004; 35:1008-13.

Technical Support

Contact FemtoPath Technical Support at +886232338585 or email to femtopath@hongjing.com.tw for assistance with more questions regarding this product.