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DATA SHEET

Rabbit Anti-PSA (Prostate Specific Antigen) [KLK3/2871R]: RM0163, RM0163RTU7

Intended Use: For Research Use Only

Description: Prostate-specific antigen (PSA) is a serine protease member of the human glandular kallikrein family. It is synthesized in the prostate ductal and acinar epithelium and diffused into serum. It is found in normal, hyperplastic, and malignant prostate tissue. Low expression of PSA has been reported in other normal or tumor tissues such as urethral, periurethral, and perianal glands, salivary duct carcinoma, and rare mammary carcinomas. Although low PSA expression has been found in other tissues, PSA is still a specific and sensitive marker for immunohistochemical analysis of tumors with prostate epithelial cell differentiation. It is valuable in the identification of metastatic tumors of prostatic origin.

Specifications

Clone:	KLK3/2871R
Source:	Rabbit
Isotype:	IgG
Reactivity:	Human
Immunogen:	Recombinant full-length human KLK3 protein
Localization:	Cytoplasm
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC

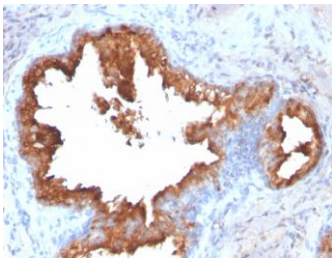
Package:

Description	Catalog No.	Size
PSA Recombinant Concentrated	RM0163	1 ml
PSA Recombinant Prediluted	RM0163RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	Prostate, prostate cancer
Concentrated Dilution:	50-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human prostate carcinoma stained with anti-PSA using DAB

References:

1. A microfluidic platform for high-throughput multiplexed protein quantitation. Volpetti F, et al. PLoS One 10:e0117744, 2015.
2. Characterization of desmoglein expression in the normal prostatic gland. Desmoglein 2 is an independent prognostic factor for aggressive prostate cancer. Barber AG, et al. PLoS One 9:e98786, 2014.
3. Inhibition of protein kinase C/Twist1 signaling augments anticancer effects of androgen deprivation and enzalutamide in prostate cancer. Shiota M, et al. Clin Cancer Res 20:951-61, 2014.
4. Myb overexpression overrides androgen depletion-induced cell cycle arrest and apoptosis in prostate cancer cells, and confers aggressive malignant traits: potential role in castration resistance. Srivastava SK, et al. Carcinogenesis 33:1149-57, 2012.

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