

## Recombinant Prostate Specific Antigen (PSA) Antibody

Rabbit Monoclonal Antibody [Clone MSVA-603R]

Catalog No	Format	Size
354-RBM23-P0	Purified Ab with BSA and Azide	20 ug
354-RBM23-P1	Purified Ab with BSA and Azide	100 ug

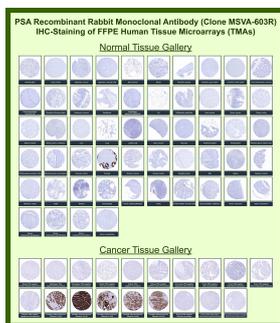
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1:100-1:200	Manual Protocol: Freshly cut sections should be used (less than 10 days between cutting and staining). Heat-induced antigen retrieval for 5 minutes in an autoclave at 121°C in pH 7.8 Target Retrieval Solution buffer. Apply the antibody at a dilution of 1:150 at 37°C for 60 minutes. Visualization of bound antibody by the EnVision Kit (Dako, Agilent) according to the manufacturer's directions.

### Product Details

<b>Clone</b>	MSVA-603R
<b>Immunogen</b>	Recombinant fragment (around aa150-250) of human KLK3 protein (exact sequence is proprietary)
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG / Kappa
<b>Mol. Weight of Antigen</b>	29kDa
<b>Cellular Localization</b>	Secreted
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Prostate: The epithelial cells of the prostate glands must show a strong cytoplasmic staining. Due to leakage of the antigen in the vicinity of the prostate glands, adjacent stroma cells may display a weak to moderate staining reaction.

\*Optimal dilution for a specific application should be determined.

### Product Images for Recombinant Prostate Specific Antigen (PSA) Antibody



Prostate-specific antigen Rabbit Recombinant Monoclonal Antibody (MSVA-603R) tested on many normal and cancer tissues. The immunohistochemistry staining in these tissues aligns with the expression data in Human Protein Atlas.

### **Specificity & Comments**

Prostate-specific antigen (PSA) is a single-chain glycoprotein of 237 amino acids containing approximately 8% carbohydrate. It is a serine protease produced almost exclusively by prostatic epithelial cells. Immunohistochemically PSA is expressed in the highly specialized apically-superficial layer of female and male secretory cells of the prostate gland, and is readily demonstrated in adenocarcinomas of the prostate in about 99% of the cases. There is a correlation between malignancy grade and intensity of staining, high grade carcinomas displaying weaker expression. About 1% of poorly differentiated carcinomas have been negative for PSA. Due to the high specificity of PSA for prostatic glandular epithelium, it is very useful in identifying prostatic carcinoma in the prostate and in the adjacent organs often affected by epithelial malignancies, i.e. rectum and urinary bladder. PSA may be used in a panel together with NKX3.1 and Prostein, which are at least as sensitive and slightly more specific than PSA.

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### **Limitations and Warranty**

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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### **Supplied As**

Ab produced in HEK293 cell mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide.

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### **Storage and Stability**

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

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### **Research Areas**

Cardiovascular, Signal Transduction

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