

**bsm-1625M****[ Primary Antibody ]****BioSS**  
ANTIBODIES

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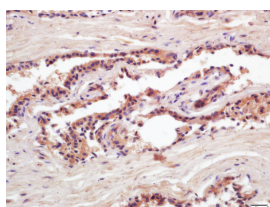
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**PSA(Pa3) Mouse mAb****— DATASHEET —**

<b>Host:</b> Mouse	<b>Isotype:</b> IgG	<b>Applications:</b> IHC-P (1:100-500) <b>IHC-F</b> (1:100-500) <b>IF</b> (1:100-500) <b>ELISA</b> (1:5000-10000)  <b>Reactivity:</b> Human  <b>Predicted MW.:</b> 23 kDa  <b>Subcellular Location:</b> Secreted
<b>Clonality:</b> Monoclonal	<b>CloneNo.:</b> Pa3	
<b>GeneID:</b> 354	<b>SWISS:</b> P07288	
<b>Target:</b> PSA(Pa3)		
<b>Immunogen:</b> Full length native protein purified from human: full length.		
<b>Purification:</b> affinity purified by Protein A		
<b>Concentration:</b> ≥1mg/ml		
<b>Storage:</b> 0.01M PBS (pH7.4) with 0.02% Proclin300. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
<b>Background:</b> Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. This gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. Its protein product is a protease present in seminal plasma. It is thought to function normally in the liquefaction of seminal coagulum, presumably by hydrolysis of the high molecular mass seminal vesicle protein. Serum level of this protein, called PSA in the clinical setting, is useful in the diagnosis and monitoring of prostatic carcinoma. Alternate splicing of this gene generates several transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008].		

**— VALIDATION IMAGES —**

Tissue/cell: human prostate carcinoma; 4%  
 Paraformaldehyde-fixed and paraffin-  
 embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block  
 endogenous peroxidase by 3% Hydrogen  
 peroxide for 30min; Blocking buffer (normal goat  
 serum, C-0005) at 37°C for 20 min; Incubation:  
 Anti-PSA(Pa3) Polyclonal Antibody,  
 Unconjugated (bsm-1625M) 1:200, overnight at  
 4°C, followed by conjugation to the secondary  
 antibody (SP-0024) and DAB (C-0010) staining

**— SELECTED CITATIONS —**

- **[IF=7.243]** Fanchun Zeng. et al. Antagonizing exosomal miR-18a-5p derived from prostate cancer cells ameliorates metastasis-induced osteoblastic lesions by targeting Hist1h2bc and activating Wnt/β-catenin pathway. GENES DIS. 2022 Jul; IHC ;Mouse. 10.1016/j.gendis.2022.06.007
- **[IF=6.2]** Yuting Gao. et al. Colorimetric and photothermal immunosensor for sensitive detection of cancer biomarkers based on enzyme-mediated growth of gold nanostars on polydopamine. ANAL CHIM ACTA. 2023 Oct;1279:341775 Other ;.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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- **[IF=4.71]** Liu, Yingshuai, et al. "A concentration— dependent multicolor conversion strategy for ultrasensitive colorimetric immunoassay with the naked eye." *Analytica Chimica Acta* (2017). ELISA ;="Rabbit". 28335966
- **[IF=5.401]** Liu, Yingshuai, Lingli Lei, and Zeying Zhang. "An ultrasensitive colorimetric immunoassay based on glucose oxidase catalyzed cascade formation of blue–black iodine–starch complex." *Sensors and Actuators B: Chemical* (2017). Other ;="". doi:10.1016/j.snb.2017.03.142
- **[IF=4.04]** Zhou, Jie, et al. "Spectrum-based and color-selective electrochemiluminescence immunoassay for determining human prostate specific antigen in near-infrared region." *Talanta* 165 (2017): 117-121. Other ;="Human". 28153230