

**Mouse Anti-Prostein [A5]: MC0172, MC0172RTU7**

**Intended Use:** For Research Use Only

**Description:** PSA, prostate specific antigen, is the classic indicator for transformed pro-state tissue; however, in addition to being upregulated in prostate cancer, PSA is also upregulated in non-malignant conditions, such as benign prostatic hyperplasia. Prostein, also designated Prostate cancer-associated protein 6, is a prostate-specific, 553 amino acid transmembrane protein that is upregulated by androgens. It is considered a marker for prostate cells since it is expressed in all prostatic glandular cells as well as in normal and cancerous prostate tissues. Since it is able to elicit a tumor-directed cytotoxic T cell response, Prostein may be used as a target for the development of PSA- and T cell-based therapeutic strategies for prostate cancer.

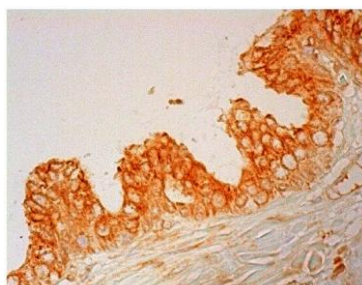
**Specifications**

Clone: A5  
 Source: Mouse  
 Isotype: IgG2a/k  
 Reactivity: Human, mouse, rat  
 Immunogen: Epitope amino acids 400-427 within an internal region of human prostein  
 Localization: Membrane, cytoplasm  
 Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, ELISA, ICC/IF, IP, WB  
 Package:

Description	Catalog No.	Size
Prostein Concentrated	MC0172	1 ml
Prostein Prediluted	MC0172RTU7	7 ml

**IHC Procedure\***

Positive Control Tissue: Prostate cancer, prostate tissue lysates, benign prostatic adenocarcinoma, prostate hyperplasia tissue, LnCaP cell lysates  
 Concentrated Dilution: 50-200  
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 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 tissue stained with anti-Prostein showing cytoplasmic and membrane staining of glandular cells.

**References:**

1. Sensitivity of HOXB13 as a Diagnostic Immunohistochemical Marker of Prostatic Origin in Prostate Cancer Metastases: Comparison to PSA, Prostein, Androgen Receptor, ERG, NKX3.1, PSAP, and PSMA. Kristiansen I, et al. Int J Mol Sci. May 29;18(6), 2017.
2. Immunohistochemistry of ductal adenocarcinoma of the prostate and adenocarcinomas of non-prostatic origin: a comparative study. Seipel AH et al. APMIS. 2016.

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