

## Monoclonal anti-human PSMA antibody (clone k1H7 )

**Mouse IgG<sub>1</sub>, κ**

**Cat. No. APS0819**

**Cat. No. APS0859**

**Size : 100 μl**

**Size : 50 μl**

**Immunogen:** Recombinant human PSMA (117-351 aa) purified from *E. coli*

**Isotype:** Mouse IgG<sub>1</sub> heavy chain and κ light chain

**Clone:** Anti-human PSMA mAb, clone k1H7, is derived from hybridization of mouse FO myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human PSMA protein.

**Description:** Prostate-specific membrane antigen (PSMA) is a 100–120 kDa type II transmembrane glycoprotein that is a glutamate-preferring carboxy-peptidase. Three functionally distinct proteins are encoded, including folylpoly-gamma-glutamate carboxypeptidase in the intestine, N-acetylated alpha-linked acidic dipeptidase 1 in the brain, and prostate-specific membrane antigen in the prostate. PSMA is highly expressed in prostate secretory-acinar epithelium, in some benign extraprostatic epithelial cells from breast, duodenum, and kidney tissues, and in prostate cancer.

**Concentration:** 1 mg/ml

**Form:** Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.1% Sodium Azide

**Preparation and Storage:** The antibody was purified from mouse ascitic fluids by protein-G affinity chromatography. Can be stored at 4°C for up to one month, but store at -20°C for long term storage. Avoid repeated freezing and thawing cycles.

**Usage:** The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Western blot analysis is 1:1,000 ~ 1:3,000.

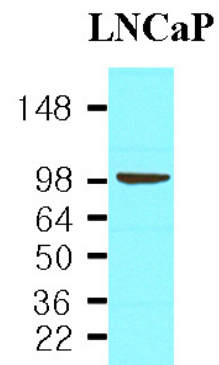
Recommended starting dilution is 1:2,000.

**Application:** ELISA, WB

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**Western blot analysis**

Cell lysates of LNCaP(30ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human PSMA (1:1,000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



- General references :** Rajasekaran SA, *et al.*, (2008) *Mol Cancer Ther* 7(7):2142-2151  
 Polly D.G, *et al.*, (2005) *Int J Cancer* 116(3):415-421  
 Susan F.S, *et al.*, (2005) *Expert Opin Ther Targets* 9(3):561-570

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