



Mouse Anti-Human PSA Monoclonal Antibody Datasheet

Product Name: mAb anti-Human PSA

Clone No.: CHYH1

Lot No.:

Catalogue No.: MO-T40081A

Quantity: 0.5 mg/vial × 1

Expiration:

Description: Mouse monoclonal antibody to Human Prostate Specific Antigen (PSA)

Purification: Protein G affinity purified

Product Type: Primary antibodies-**Capture** antibody in matched antibody pair

Target Protein: Human Prostate Specific antigen (PSA)

Immunogen: Human Prostate Specific antigen (PSA)

Fusion Myeloma: Sp2/0-Ag14

Specificity: This antibody is reactive to normal prostate, benign prostate hyperplasia and prostate malignant carcinoma.

Species Reactivity: Human, others not tested

Host / Isotype: Mouse, IgG1 Kappa

Formulation: Lyophilized from a solution in 0.01M PBS, pH 7.0

Reconstitution: Double distilled water is recommended to reconstitute the antibody.

Storage: Store at -20°C

Research Area: Oncology

Background: Prostate specific antigen (PSA) is a kallikrein related peptidase secreted by the epithelial cells of the prostate gland. Majority of PSA exists in plasma in bounded forms with α 1 anti-chymotrypsin or other proteins. The protein is elevated in prostatic disorders such as prostate cancer and benign prostatic hyperplasia. PSA has been used as a biomarker for prostate cancer screening.

Applications: **ELISA:** This antibody can be used as a capture antibody in sandwich ELISA applications for human PSA detection in combination with a tracer antibody (HRP-conjugated, Cat. No.: MO-T40081T) that is derived from PSA mAb CHYH2 (Cat. MO-T40081B).

Immunohistochemistry: The antibody can be used in IHC application for formalin-fixed, paraffin embedded and frozen tissue sections.

Western Blot:



Detect PSA antigen (100ng/well) using 1 μ g/mL mouse anti-human PSA mAb clone CHYH1.

This product is for **LABORATORY RESEARCH USE** and further manufacture **ONLY**, and cannot be administrated to human and animals for use in diagnostic and therapeutic procedures.

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References:

1. Sadagopan Krishnan et al. Attomolar Detection of a Cancer Biomarker Protein in Serum by Surface Plasmon Resonance Using Superparamagnetic Particle Labels* Angew. Chem. Int. Ed. Engl. 2011 February 1; 50(5): 1175–1178
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3. Mani V et al. Highly efficient binding of paramagnetic beads bioconjugated with 100,000 or more antibodies to protein-coated surfaces. Anal Chem. 2012 Dec 4;84(23):10485-91.
4. Bhaskara V. Chikkaveeraih et al. Single-Wall Carbon Nanotube Forest Arrays For Immunochemical Measurement of 4 Protein Biomarkers for Prostate Cancer. Anal. Chem. Nov 1, 2009; 81(21): 9129-9134.
5. Bhaskara V. Chikkaveeraiah et al. Microfluidic Electrochemical Immunoarray for Ultrasensitive Detection of Two Cancer Biomarker Proteins in Serum. Biosens Bioelectron. Jul 15, 2011; 26(11): 4477-4483.
6. Jeong-Mi Moon et al. A nanowire-based label-free immunosensor: Direct incorporation of a PSA antibody in electropolymerized polypyrrole. Biosensors and Bioelectronics. Volume 57, 15 July 2014, Pages 157–161.

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