ANOGEN - A Division of YES Biotech Laboratories Ltd.

2355 Derry Road East, Unit 23, Mississauga, ON, Canada L5S 1V6 • Tel: (905) 677-9221 • Fax: (905) 677-0023

Mouse Anti-Human PSA Monoclonal Antibody Datasheet

Product Name: mAb anti-Human PSA Catalogue No.: MO-T40081B		Clone No.: CHYH2 Quantity: 0.5 mg/vial	
Purification:	Protein G affinity purified		the epithelial cells of the prostate gland. Majority of PSA exists in plasma in
Product Type:	Primary antibodies, Detection Antibody in matched Antibody Pair		bounded forms with α1 anti- chymotrypsin or other proteins. The protein is elevated in prostatic disorders
Target Protein:	Human Prostate Specific antigen (PSA)		such as prostate cancer and benign prostatic hyperplasia. PSA has been
Immunogen:	Human Prostate Specific antigen (PSA)		used as a biomarker for prostate cancer screening.
Fusion	Sp2/0-Ag14		screening.
Myeloma: Specificity:	This antibody is reactive to normal prostate, benign prostate hyperplasia	Applications:	ELISA: This antibody, when conjugated with HRP, can be used in sandwich ELISA applications for human PSA detection in combination with a monoclonal capture antibody clone CHYH1 (Cat. No.: MO- T40081A).
Species	and prostate malignant carcinoma. Human, others not tested		
Reactivity:			Immunohistochemistry: The antibody
Host / Isotype:	Mouse, IgG1 Kappa		can be used in IHC application for for for for for for for for and for and for and for and for a second second
Formulation:	Lyophilized from 0.01M K ₂ HPO ₄ – KH ₂ PO ₄ buffer, pH = 7.0		frozen tissue sections.
Reconstitution:	Double distilled water is recommended		Western Blot:
Reconstitution.	to reconstitute the antibody.		1. Detect purified PSA antigen (100ng/well) using 1µg/ml mouse anti-
Storage:	Store at -20°C		human PSA mAb clone CHYH2.
Research Area:	Oncology		

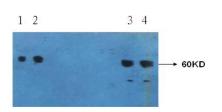
This product is for LABORATORY RESEARCH USE and further manufacture ONLY, and cannot be administrated to human and animals for use in diagnostic and therapeutic procedures. Manufactured by ANOGEN - A Division of YES Biotech Laboratories Ltd. Page 1 of 2 page(s) S7.5 (04)

> To place order, please contact us by phone, fax or by email: info@anogen.ca, or with our online store: www.anogen.ca

ANOGEN - A Division of YES Biotech Laboratories Ltd.

2355 Derry Road East, Unit 23, Mississauga, ON, Canada L5S 1V6 • Tel: (905) 677-9221 • Fax: (905) 677-0023

2. Detect PSA antigen in HepG2 cell lysate.



Lane1 &2: mouse anti-human PSA antibody (CHYH2) used at 0.5µg/ml. Lane3 & 4: mouse anti-human PSA antibody (CHYH2) used at 1µg/ml.

References:

1. Sadagopan Krishnan et al. <u>Attomolar</u> <u>Detection of a Cancer Biomarker Protein</u> <u>in Serum by Surface Plasmon Resonance</u> <u>Using Superparamagnetic Particle</u> <u>Labels*</u> Angew. Chem. Int. Ed. Engl. 2011 February 1; 50(5): 1175–1178

 Vigneshwaran Mani et al. <u>Ultrasensitive Immunosensor for Cancer</u> <u>Biomarker Proteins using Gold</u> <u>Nanoparticle Film Electrodes and</u> <u>Multienzyme-Particle Amplification.</u> ACS Nano. Mar 24, 2009; 3(3): 585–594.

 Mani V et al. <u>Highly efficient binding</u> 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. <u>Single-Wall Carbon Nanotube Forest</u> <u>Arrays For Immunoelectrochemical</u> <u>Measurement of 4 Protein Biomarkers</u> <u>for Prostate Cancer.</u> Anal. Chem. Nov 1, 2009; 81(21): 9129-9134. 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. <u>A nanowire-based label-free immunosensor: Direct incorporation of a PSA antibody in electropolymerized polypyrrole.</u>
Biosensors and Bioelectronics. Volume 57, 15 July 2014, Pages 157–161.

7. Gary C. Jensen et al. <u>Characterization</u> of <u>Multienzyme-Antibody-Carbon</u> <u>Nanotube Bioconjugates for</u> <u>Immunosensors.</u> J Nanosci Nanotechnol. Jan 2009; 9(1): 249–255.

If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

5. Bhaskara V. Chikkaveeraiah et al.

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. Manufactured by ANOGEN - A Division of YES Biotech Laboratories Ltd.

Page 2 of 2 page(s)

To place order, please contact us by phone, fax or by email: <u>info@anogen.ca</u>, or with our online store: <u>www.anogen.ca</u>