

SCRIPPS **PRODUCT REVIEW**

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Purified PSA and PSA Complexes

Serum assays for PSA cannot be relied on to distinguish between prostate cancer and benign prostatic hyperplasia (BPH), as serum levels of PSA elevate in both diseases.

Evidence indicates that prostate specific antigen (PSA) forms a complex in human serum with α_1 -antichymotrypsin (ACT) and with α_2 -macroglobulin (A2M). Furthermore, it has been shown that serum levels of the PSA-ACT complex are higher in patients with prostate cancer than in those with BPH. As such, measuring the ratio of PSA-ACT to uncomplexed, free PSA in patient samples is proving valuable in the differential diagnosis of prostate cancer (see Scripps News Vol. 9 No.3 and Vol. 8 No.1). In addition, serum levels of the PSA-A2M complex may prove useful in prostate cancer diagnosis, but further study is required (see Scripps News Vol. 11 No. 1).

Scientists at Scripps have developed a proprietary method of manufacturing PSA-ACT and PSA-A2M. Highly purified PSA is also available.

Antibodies

Scripps has bulk quantities of PSA monoclonal and polyclonal antibodies for the development of a total PSA immunoassay. These projects are mature and producing large volumes of antibody.

The PSA monoclonals are protein A purified, and the polyclonals are purified via immunoaffinity or ion-exchange chromatography.

To evaluate these or other materials, please call, fax, or contact us via our website.

Contact Scripps for all your bulk biochemicals:

HORMONES
CARDIAC MARKERS
CANCER MARKERS
PLASMA PROTEINS
ANTIBODIES

(colloidal gold conjugation is available)

Tel: USA 858-546-5800
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PSA

Raw Materials for Immunoassay Development

PSA-ACT Monoclonal - Catalog No. MP067

Clone	ELISA Results	Western Blot Results
AP0015	Reactive with PSA-ACT Non-reactive with PSA, ACT, and PSA-A2M	Reactive with non-reduced PSA-ACT Non-reactive with PSA, ACT, reduced PSA-ACT, and PSA-A2M

Free-PSA Monoclonal - Catalog No. MP077

Clone	ELISA Results	Western Blot Results
BP0045	Marked specificity for free-PSA upon direct ELISA	Reactive with PSA, PSA-ACT, and PSA-A2M

Total-PSA Monoclonal - Catalog No. MP077

Clone	ELISA Results	Western Blot Results
BP0055	Reactive with PSA, PSA-ACT, and PSA-A2M upon both direct and sandwich ELISA	Reactive with PSA, PSA-ACT, and PSA-A2M

Note: Clones other than those listed above are also available; please inquire

PSA Polyclonals

Catalog #	Host Animal	Purification Method
GP079	Goat	Immunoaffinity chromatography
GP075	Goat	Ion-exchange chromatography

Purified PSA and Related Preparations

Catalog #	Product	Purity by SDS-PAGE
P0725	PSA	≥ 99%
P0724	PSA	≥ 95%
P5125	PSA, Non-Complexing Form	≥ 98%
P5124	PSA, Non-Complexing Form	≥ 95%
P0625	PSA-ACT	≥ 99%
P0624	PSA-ACT	≥ 95%
P5824	PSA-A2M	-
A1824	ACT	≥ 95%
M0614	A2M	≥ 95%

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