

# Prostate Specific Antigen (PSA)

## Purified PSA and Related Preparations

Catalog No.	Product	Purity by SDS-Page
A1824	$\alpha$ 1-Antichymotrypsin (ACT)	$\geq$ 95%
M0614	$\alpha$ 2-Macroglobulin (A2M)	$\geq$ 95%
P0725	PSA	$\geq$ 99%
P0724	PSA	$\geq$ 95%
P5124	PSA, Non-Complexing Form	$\geq$ 95%
P0625	PSA-ACT	$\geq$ 99%
P0624	PSA-ACT	$\geq$ 95%

Note that Prostatic Acid Phosphatase (PAP) is also available:  $\geq$ 98% pure.

## PSA-ACT Monoclonal - Cat. No. MP067

Clone	ELISA Results	Western Blot Results
AP001S	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 - Cat. No. MP077

Clone	ELISA Results	Western Blot Results
BP004S	Marked specificity for free-PSA upon direct ELISA	Reactive with PSA, PSA-ACT, and PSA-A2M

## Total-PSA Monoclonal - Cat. No. MP077

Clone	ELISA Results	Western Blot Results
BP005S	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 No.	Host Animal	Purification Method
GP079	Goat	Immunoaffinity chromatography
GP075	Goat	Ion-exchange chromatography

## PURIFIED PSA & 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  $\alpha$ 1-antichymotrypsin (ACT). 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. Highly purified PSA is also available.

## ANTIBODIES

Scripps has PSA monoclonal and polyclonal antibodies for the development of a total PSA immunoassay. The PSA monoclonals are protein A purified, and the polyclonals are purified via immunoaffinity or ion-exchange chromatography.