

Product Review

Raw Materials for Immunoassay Development and Manufacturing

Prostate Specific Antigen (PSA)

Purified PSA and Related Preparations

Catalog No.	Product	Purity by SDS-Page
A1824	α 1-Antichymotrypsin (ACT)	\geq 95%
M0614	α 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%

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

PSA-ACT Monoclonal - Catalog 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 - Catalog 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 - Catalog 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

Contact Scripps for all your bulk biochemicals:

Hormones - Cardiac Markers - Cancer Markers - Plasma & Tissue Proteins - Antibodies

These products are For Research Use or Further Manufacture Only.

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). 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 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.