

## TECHNICAL PRODUCT SUMMARY

# Prostate Specific Antigen (PSA)

### PSA & RELATED PROTEINS

Cat. No.	Description	Source	Purity
A1824	$\alpha$ 1-Antichymotrypsin (ACT)	Human Plasma	$\geq$ 99%
M0614	$\alpha$ 2-Macroglobulin (A2M)	Human Plasma	$\geq$ 80%
P0725	PSA	Human Seminal Fluid	$\geq$ 99%
P0724	PSA	Human Seminal Fluid	$\geq$ 95%
P5124	PSA, Non-Complexing Form	Human Seminal Fluid	$\geq$ 95%
P0625	PSA-ACT	Human Seminal Fluid	$\geq$ 99%
P0624	PSA-ACT	Human Seminal Fluid	$\geq$ 95%
P0524	Prostatic Acid Phosphatase	Human Seminal Fluid	$\geq$ 98%

### ANTIBODIES

Cat. No.	Description	Clone	Reactivity
MP077	PSA Monoclonal	AP002S	PSA, PSA-ACT, PSA-A2M
MP077	PSA Monoclonal	AP003S	Free PSA
MP077	PSA Monoclonal	BP001	PSA, PSA-ACT
MP077	PSA Monoclonal	BP005S	PSA, PSA-ACT, PSA-A2M
MP077	PSA Monoclonal	BP008S	PSA, PSA-ACT, PSA-A2M
GP079	Goat anti PSA Polyclonal		Immunoaffinity Chromatography

### PSA & Related Proteins in Prostate Cancer

Serum assays for Prostate Specific Antigen (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 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 non-complexed, 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

**ISO 9001:2015**

*Intended Use: All Products are for Research Use or Further Manufacture Only. Not for Use in Diagnostic Procedures.*