

Monoclonal Anti- Prostate-specific antigen, PSA (Capture or Detection Ab)

Catalog# BDA1038

Lot # Check on the product label

Size 1 mg

Isotype IgG1

Clone # 1C2

Host Mouse

Reactivity

Human

Product Form Liquid

Purification & Buffer

Protein A or G purified and supplied in 0.9% NaCl without preservative.

Purity >95% by HPLC & SDS-PAGE

Immunogen Recombinant prostate specific antigen protein.

Recommend Application

ELISA

Chemiluminescent immunoassay, CLIA

Other applications have not been tested.

The optimal dilutions should be determined by end user.

Matched antibody pair information

>> **Pairs for Free-PSA testing**

| Capture Ab | Detection Ab |
|------------|--------------|
| PSA #3D7 | PSA #2G2 |
| PSA #2G2 | PSA #3D7 |
| PSA #1C2 | PSA #3D7 |
| PSA #3D7 | PSA #1C2 |

>> **Pairs for Total-PSA testing**

| Capture Ab | Detection Ab |
|------------|--------------|
| PSA #1C2 | PSA #2G2 |
| PSA #2G2 | PSA #1C2 |

Storage Instruction

Aliquot and store at -20°C for long term (at least one year).

Avoid repeated freeze and thaw cycles.

Background

Prostate-specific antigen (PSA), also known as gamma-seminoprotein or kallikrein-3 (KLK3), is a glycoprotein enzyme encoded in humans by the KLK3 gene. PSA is a member of the kallikrein-related peptidase family and is secreted by the epithelial cells of the prostate gland. PSA is produced for the ejaculate, where it liquefies semen in the seminal coagulum and allows sperm to swim freely. It is also believed to be instrumental in dissolving cervical mucus, allowing the entry of sperm into the uterus.

Reference

- Balk SP, Ko YJ, Bubley GJ (Jan 2003). "Biology of prostate-specific antigen". *Journal of Clinical Oncology*. 21 (2): 383 - 91.
- Hellstrom WJG, ed. (1999). "Chapter 8: What is the prostate and what is its function?". *American Society of Andrology Handbook*. San Francisco: American Society of Andrology.

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