

Request Information

Permalink

Anti-PSA IgG

Tech ID: 29782 / UC Case 2014-845-0

SUMMARY

Researchers at UCLA have developed chimeric IgG specific for prostate-specific antigen (PSA) in human and mouse cells.

BACKGROUND

Prostate-specific antigen (PSA) is a substance made by cells in the prostate gland. Physicians use high PSA levels (above 4 nanograms per milliliter) as a blood biomarker for prostate cancer. Given this, a PSA antibody with high specificity to human PSA would benefit clinical diagnosis of prostate cancer.

INNOVATION

Researchers at UCLA have developed a chimeric IgG specific antibody for the PSA in human and mouse cells. The variable regions of this antibody are those of the murine monoclonal antibody AR47.47. This novel antibody was expressed in murine myeloma cell lines, and is therefore cost efficient and easy to produce. It is properly assembled and secreted and binds PSA antigen

APPLICATIONS

- ▶ Detect levels of PSA in prostate cancer patients
- ▶ Detect levels of PSA in experimental procedures performed in research laboratories

ADVANTAGES

Specific to PSA

Developed in murine myeloma cell lines:

- ▶ Cost-efficient
- ▶ Easy to produce large quantities of antibody

STATE OF DEVELOPMENT

Antibody has been developed and validated.

ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

- ▶ [Antibody Fusion Proteins with Disrupted Heparin- Binding Activity](#)

CONTACT

UCLA Technology Development
Group
ncd@tdg.ucla.edu
tel: 310.794.0558.



INVENTORS

- ▶ Penichet, Manuel L.

OTHER INFORMATION

KEYWORDS

Antibody, prostate specific antigen,
PSA, prostate cancer biomarker,
diagnosis, diagnostic

CATEGORIZED AS

- ▶ **Medical**
 - ▶ Diagnostics
 - ▶ Disease: Cancer
 - ▶ Research Tools
- ▶ **Research Tools**
 - ▶ Antibodies

RELATED CASES

2014-845-0