

Synonym

PSCA,UNQ206,PRO232

Source

Human PSCA, His Tag(PSA-H52H6) is expressed from human 293 cells (HEK293). It contains AA Leu 12 - Ser 86 (Accession # [O43653-1](#)).

Molecular Characterization

PSCA(Leu 12 - Ser 86)
O43653-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 10.4 kDa. The protein migrates as 18-25 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

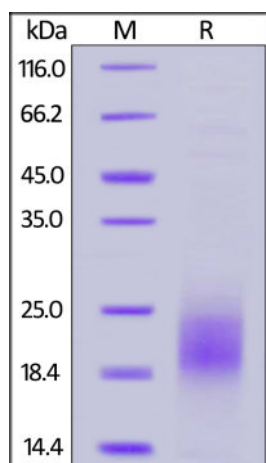
Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

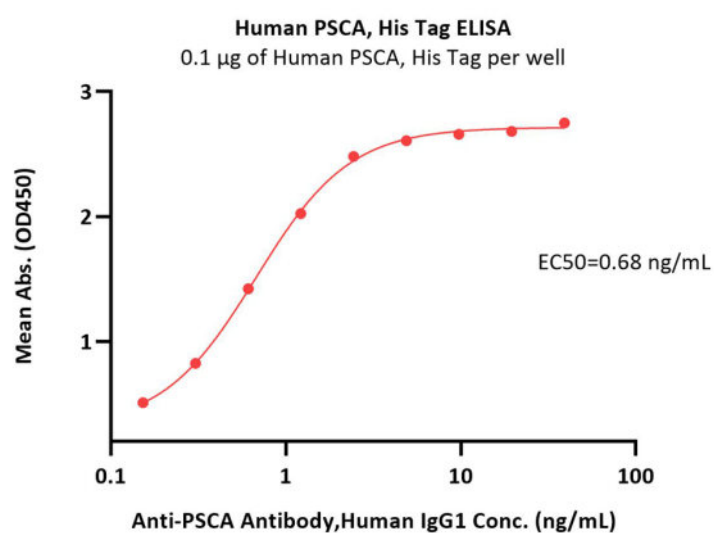
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

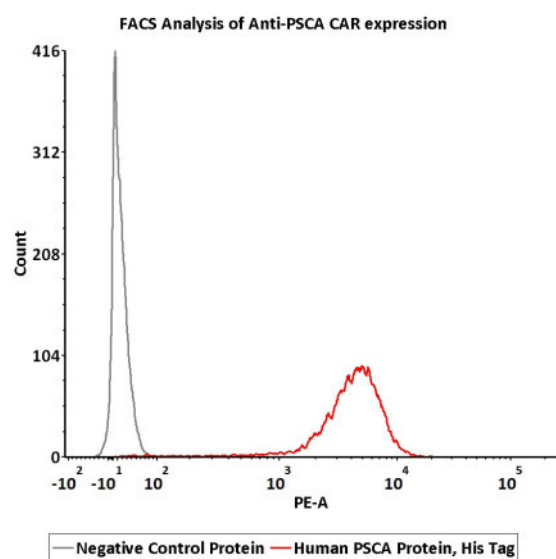
Human PSCA, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA



Immobilized Human PSCA, His Tag (Cat. No. PSA-H52H6) at 1 µg/mL (100 µL/well) can bind Anti-PSCA Antibody, Human IgG1 with a linear range of 0.2-1 ng/mL (QC tested).

Bioactivity-FACS



2e5 of anti-PSCA CAR-293 cells were stained with 100 µL of 3 µg/mL of Human PSCA, His Tag (Cat. No. PSA-H52H6) and negative control protein respectively, washed and then followed by PE anti-His Tag antibody and analyzed with FACS (Routinely tested).

Background

The Prostate stem cell antigen (PSCA) is a glycosylphosphatidylinositol (GPI)-anchored protein, plays an important role in tumorigenesis. The prostate stem cell antigen (PSCA) gene, which encodes a prostate-specific antigen (PSA), was identified as a gene involved in cell adhesion and proliferation. PSCA may be involved in the regulation of cell proliferation. Has a cell-proliferation inhibition activity in vitro. May act as a modulator of nicotinic acetylcholine receptors (nAChRs) activity. In vitro inhibits nicotine-induced signaling probably implicating alpha-3:beta-2- or alpha-7-containing nAChRs.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.