

Product sheet

VCaP | 300631

VCaP

Description VCaP (Vertebral-Cancer of the Prostate) is a cell line derived from a patient with metastatic prostate cancer. It is characterized by a TMPRSS2-ERG fusion and is used for studying prostate cancer biology and drug response.

Organism Human

Tissue Prostate

Disease Prostate Cancer

Metastatic site Bone, Lymph Node

Synonyms VCAP, Vcap, VCaP

VCaP

Age 59 years

Gender Male

Ethnicity Caucasian

Growth properties Adherent

VCaP

Citation VCaP (Cytion 300631)

Biosafety level VCaP is classified as BSL-1 (BSL-1) and is not infectious. It is not a Zoonotic Agent (ZKA).

NCBI_TaxID 9606

CellosaurusAccession CVCL_2235

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Antigen expression P53, p18, p16, p21, p27, p29, p30, p53, p63, p65, p70, p75, p79, p80, p85, p90, p95, p101, p105, p107, p110, p115, p119, p125, p130, p135, p140, p145, p150, p155, p160, p165, p170, p175, p180, p185, p190, p195, p200, p205, p210, p215, p220, p225, p230, p235, p240, p245, p250, p255, p260, p265, p270, p275, p280, p285, p290, p295, p300, p305, p310, p315, p320, p325, p330, p335, p340, p345, p350, p355, p360, p365, p370, p375, p380, p385, p390, p395, p400, p405, p410, p415, p420, p425, p430, p435, p440, p445, p450, p455, p460, p465, p470, p475, p480, p485, p490, p495, p500, p505, p510, p515, p520, p525, p530, p535, p540, p545, p550, p555, p560, p565, p570, p575, p580, p585, p590, p595, p600, p605, p610, p615, p620, p625, p630, p635, p640, p645, p650, p655, p660, p665, p670, p675, p680, p685, p690, p695, p700, p705, p710, p715, p720, p725, p730, p735, p740, p745, p750, p755, p760, p765, p770, p775, p780, p785, p790, p795, p800, p805, p810, p815, p820, p825, p830, p835, p840, p845, p850, p855, p860, p865, p870, p875, p880, p885, p890, p895, p900, p905, p910, p915, p920, p925, p930, p935, p940, p945, p950, p955, p960, p965, p970, p975, p980, p985, p990, p995

Tumorigenic Yes, SCID

Viruses Bxv-1

Media

Culture Medium DMEM:Ham's F12 (1:1), w: 3.1 g/L Glucose, w: 2.5 mM L-Glutamine, w: 15 mM HEPES, w: 0.5 mM Sodium Pyruvate, w: 1.2 g/L NaHCO3 820400a)

Supplements 10% FBS

Dissociation Reagent Trypsin

Doubling time 5-6 days

Subculturing 1-PBS 2-T25, 3-5' PBS, 3'

Seeding density 4-8 x 10⁴ cells/cm²

Freeze medium (FBS) + 10% DMSO

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Thawing and Culturing Cells

1. Thaw the vial rapidly in a water bath at 37°C. Do not allow the cells to reach room temperature. Transfer the cells to a pre-warmed medium.
2. Seed the cells into a pre-warmed flask containing 15 mL of medium. Incubate at 37°C with 5% CO₂.
3. After 24 hours, check the cells. If they are not attached, add 10% FBS to the medium.
4. Once the cells are attached, replace the medium with fresh medium containing 10% FBS.
5. After 48 hours, the cells should be confluent. Pass the cells into a new flask.
6. After 72 hours, the cells should be confluent. Pass the cells into a new flask.
7. After 96 hours, the cells should be confluent. Pass the cells into a new flask.
8. After 120 hours, the cells should be confluent. Pass the cells into a new flask.

Incubation Atmosphere 37°C, 5% CO₂, humidified air

Flask Coating None

Freezing Procedure Harvest cells into a 15 mL tube containing 1 mL of freezing medium. Freeze at -80°C.

Shipping Conditions Ship at -80°C.

Storage Conditions Store at -150°C for up to 196 days.

VCaP / HLA

Sterility The cells are free of mycoplasmas and PCR detectable. The cells are free of endotoxins.