

OVKATE

Cat. No. ARC1037, 1×10^6 cells/vial

Description

OVKATE is a human ovarian cancer cell line established from the primary ovarian tumor of a 40-year-old female with serous papillary adenocarcinoma. At the time of establishment, OVKATE cells were tumorigenic in nude mice after both Intraperitoneal and subcutaneous (s.c.) transplantation. However, more recent studies have shown that OVKATE forms only after subcutaneous implantation[1]. The cells harbor an R282W mutation in the TP53 gene, resulting in a loss of TP53 function. OVKATE cells have been also reported to be resistant to platinum-based agents[2].

OVKATE is a significant cancer cell model of primary high-grade serous adenocarcinoma (HGSOC). The generation of xenograft models OVKATE enables a deeper understanding and preclinical drug development for ovarian cancer research.

[1] A. K. Mitra et al., "In vivo tumor growth of high-grade serous ovarian cancer cell lines," *Gynecol. Oncol.*, vol. 138, no. 2, pp. 372–377, Aug. 2015, doi: 10.1016/j.ygyno.2015.05.040.

[2] S. Yamaguchi, Y. Maida, M. Yasukawa, T. Kato, M. Yoshida, and K. Masutomi, "Eribulin Mesylate Targets Human Telomerase Reverse Transcriptase in Ovarian Cancer Cells," *PLoS ONE*, vol. 9, no. 11, p. e112438, Nov. 2014, doi: 10.1371/journal.pone.0112438.

Specification

Cell Type: Cancer cell line

Tissue/Organ: Ovary

Derived from Site: In situ; Ovary

Disease: Serous adenocarcinoma

Species: Homo sapiens (Human)

Genetic Background: Japanese

Sex of Donor: Female

Age: 40 years



Shipping & Storage

Shipping condition: Frozen on dry ice.

Storage condition: Liquid nitrogen (LN₂) cryopreservation.

Intended Use

This product is intended for laboratory in vitro use only. It is not intended for diagnostic, therapeutic, or clinical applications.

Culturing Guidance

Morphology: Epithelial-like

Growth Mode: Adherent

Temperature: 37°C

Atmosphere: 5% CO₂

Unpacking and Storage Instructions

1. Visually inspect all packaging components for integrity and verify adequate dry ice.
If any damage is observed, notify Ascent Technical Support immediately.
2. Prioritize transfer to liquid nitrogen vapor phase storage system (-130°C or below).
Secondary option: -80°C mechanical freezer (short-term storage only).
Always maintain temperature strictly below -65°C.

Disclaimer

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