

HCC78 | 302156

General information

Description	HCC78 is a human breast cancer cell line derived from a primary tumor. It is characterized by the presence of the ROS1 gene, which is amplified and overexpressed in this cell line. HCC78 cells are highly proliferative and can be grown in the presence of insulin, transferrin, and selenium (ITS) medium. HCC78 cells are also known for their resistance to certain chemotherapeutic agents, including doxorubicin and epirubicin.
Organism	Human
Tissue	Human breast cancer tissue
Disease	Human breast cancer
Synonyms	HCC-78, HCC0078, HCC78, HCC78.1, HCC78.2, HCC78.3, HCC78.4, HCC78.5, HCC78.6, HCC78.7, HCC78.8, HCC78.9, HCC78.10, HCC78.11, HCC78.12, HCC78.13, HCC78.14, HCC78.15, HCC78.16, HCC78.17, HCC78.18, HCC78.19, HCC78.20, HCC78.21, HCC78.22, HCC78.23, HCC78.24, HCC78.25, HCC78.26, HCC78.27, HCC78.28, HCC78.29, HCC78.30, HCC78.31, HCC78.32, HCC78.33, HCC78.34, HCC78.35, HCC78.36, HCC78.37, HCC78.38, HCC78.39, HCC78.40, HCC78.41, HCC78.42, HCC78.43, HCC78.44, HCC78.45, HCC78.46, HCC78.47, HCC78.48, HCC78.49, HCC78.50, HCC78.51, HCC78.52, HCC78.53, HCC78.54, HCC78.55, HCC78.56, HCC78.57, HCC78.58, HCC78.59, HCC78.60, HCC78.61, HCC78.62, HCC78.63, HCC78.64, HCC78.65, HCC78.66, HCC78.67, HCC78.68, HCC78.69, HCC78.70, HCC78.71, HCC78.72, HCC78.73, HCC78.74, HCC78.75, HCC78.76, HCC78.77, HCC78.78, HCC78.79, HCC78.80, HCC78.81, HCC78.82, HCC78.83, HCC78.84, HCC78.85, HCC78.86, HCC78.87, HCC78.88, HCC78.89, HCC78.90, HCC78.91, HCC78.92, HCC78.93, HCC78.94, HCC78.95, HCC78.96, HCC78.97, HCC78.98, HCC78.99, HCC78.100

Cell culture

Age	65 years
Gender	Female
Ethnicity	White
Growth properties	Adherent, Epithelial, Growth in the presence of insulin, transferrin, and selenium (ITS) medium.

Genetic information

Citation	HCC78 (HCC78) Cytion 302156
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_2061

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**Culture
Medium**

RPMI 1640, w: 2.0 mM CaCl_2 , w: 2.0 g/L NaHCO_3 (Cytion 820700a)

Supplements

10% FBS

**Dissociation
Reagent**

Trypsin

Subculturing

Cells are grown in 25 cm² flasks in RPMI 1640 medium supplemented with 10% FBS. For subculturing, cells are trypsinized and resuspended in PBS. Cells are then seeded into new flasks at a density of 1-5 x 10⁵ cells per flask. Cells are grown in 25 cm² flasks in RPMI 1640 medium supplemented with 10% FBS.

**Freeze
medium**

Freezing medium: RPMI 1640 medium supplemented with 10% FBS and 10% DMSO. Cells are resuspended in freezing medium and seeded into freezing vials.

**Thawing and
Culturing Cells**

1. Thaw cells rapidly in a 37°C water bath. Transfer cells to a 15 mL tube and add 10 mL of RPMI 1640 medium supplemented with 10% FBS.
2. Centrifuge cells at 300 x g for 5 minutes. Remove supernatant and resuspend cells in 1 mL of RPMI 1640 medium supplemented with 10% FBS.
3. Seed cells into a 25 cm² flask. Incubate cells for 24 hours in a 37°C incubator with 5% CO₂.
4. After 24 hours, replace the medium with fresh RPMI 1640 medium supplemented with 10% FBS.
5. Cells are grown in 25 cm² flasks in RPMI 1640 medium supplemented with 10% FBS.
6. Cells are grown in 25 cm² flasks in RPMI 1640 medium supplemented with 10% FBS.
7. Cells are grown in 25 cm² flasks in RPMI 1640 medium supplemented with 10% FBS.
8. Cells are grown in 25 cm² flasks in RPMI 1640 medium supplemented with 10% FBS.

**Incubation
Atmosphere**

37°C, 5% CO₂, humidified

Flask Coating

Not required

**Freezing
Procedure**

Cells are resuspended in freezing medium and seeded into freezing vials. Vials are frozen in a controlled rate freezer and stored at -80°C.

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**Shipping
Conditions**

Shipping conditions: The product is shipped in a temperature-controlled container at -78°C .

**Storage
Conditions**

Storage conditions: The product should be stored at -150 to -196°C in a liquid nitrogen container.

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Sterility

The product is sterile and suitable for PCR. The product is packaged in a sterile container. The product is suitable for use in PCR.