

MDA-MB-231 | 300275

General information

Description	MDA-MB-231 is a cell line derived from a primary mammary carcinoma. It is a highly metastatic, triple-negative breast cancer cell line. It is characterized by its ability to grow in suspension and its resistance to anti-HER2/neu therapy. MDA-MB-231 is a highly metastatic, triple-negative breast cancer cell line. It is characterized by its ability to grow in suspension and its resistance to anti-HER2/neu therapy. MDA-MB-231 is a highly metastatic, triple-negative breast cancer cell line. It is characterized by its ability to grow in suspension and its resistance to anti-HER2/neu therapy.
Organism	Human
Tissue	Breast
Disease	Breast cancer
Metastatic site	MDA-MB-231 is a highly metastatic cell line. It is characterized by its ability to grow in suspension and its resistance to anti-HER2/neu therapy.

Synonyms MDA_MB_231, MDA-MB 231, MDA.MB.231, MDA MB 231, MDA MB231, MDA Mb231, MDA-MB231, MDAMB-231, MDAMB231, MDA-231, MDA-231P, MDA231, MDA231-BRE, MB231, MD Anderson-Metastatic Breast-231

Cell characteristics

Age	51 years
Gender	Female
Ethnicity	White
Morphology	Epithelial
Growth properties	Adherent

Cell line identification

Citation	MDA-MB-231 (ATCC CCL-231) Cytion 300275
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0062

MDA-MB-231 | 300275

Cell Line: MDA-MB-231

Cell ID: 300275

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 Selenium Yt, w: 1.2 g/L NaHCO3 (820400a)
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Supplements	10% FBS
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Dissociation Reagent	Trypsin
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Subculturing	Cells are grown in 25 cm ² flasks in DMEM:Ham's F12 (1:1) supplemented with 10% FBS. When cells reach 80-90% confluency, they are trypsinized and seeded into new flasks. The medium is changed every 3-5 days.
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Fluid renewal	2-3 times per week
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Freeze medium	DMEM:Ham's F12 (1:1) supplemented with 10% FBS + 10% DMSO
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Thawing and Culturing Cells	1. Thaw cells quickly in a water bath at 37°C. 2. Dilute cells in DMEM:Ham's F12 (1:1) supplemented with 10% FBS. 3. Seed cells into a 25 cm² flask. 4. Incubate cells in a CO₂ incubator at 37°C. 5. Change medium every 3-5 days. 6. When cells reach 80-90% confluency, trypsinize and seed into new flasks. 7. Repeat steps 1-6. 8. Store cells in liquid nitrogen.
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Incubation Atmosphere	37°C, 5% CO ₂
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MDA-MB-231 | 300275

Flask Coating

Flask coating is not required for this cell line.

Freezing Procedure

For freezing, cells are seeded into a 25 cm² flask and grown to confluence. Cells are then trypsinized and resuspended in 10 ml of freezing medium (DMEM/F12 + 10% FBS + 10% DMSO). The suspension is then aliquoted into 1 ml vials and frozen at -80°C.

Shipping Conditions

Cells are shipped in a dry ice container at -80°C.

Storage Conditions

Cells can be stored at -150 to -196 °C for up to 1 year.

MDA-MB-231 / MDA-MB-231 / HLA

Sterility

Cells are tested for mycoplasma contamination using PCR. Cells are also tested for sterility using a sterility test kit. Cells are found to be free of mycoplasma and sterile.