

DESCRIPTION

METHOD FOR PRODUCING PRODUCTION OF TUMOR CELLS FROM NORMAL MAMMARY EPITHELIAL CELLS

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TECHNICAL FIELD

The present invention relates to a method for producing tumor cells based on normal mammary epithelial cells without using TERT, tumor cells produced according to this method, and a method for screening antitumor agents using the tumor cells.

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BACKGROUND ART

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Breast cancer is characterized as a tumor that occurs in mammary tissue, and 10% of women in Western countries are known to be afflicted with breast cancer at some point in their lives. In addition, approximately 20% of women with breast cancer end up dying due to the cancer. Moreover, although occurring at a lower rate (about 0.1%), breast cancer is also known to occur in men.

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The mechanism of the occurrence of breast cancer is still not figured out systematically. Consequently, the current treatment of breast cancer is forced to rely on the surgical excision of cancerous tissue as a general rule, with chemotherapy and radiotherapy being limited to the roles of secondary treatment. Among the types of breast cancer, a type known as "triple negative" breast cancer, which is negative for expression of estrogen receptor, negative for expression of progesterone receptor and negative for erthythroblastic leukemia viral oncogene homolog 2 (ERBB2) protein, in particular advances rapidly and has a poor prognosis, and therefore an effective treatment method is needed.