

4T1-HER2-LUC cells were generated from the BALB/c mouse breast cancer cell line 4T1 by transduction with replication-defective lentivirus encoding human HER2 and luciferase. Surface expression of HER2 was confirmed by flow cytometry (Figure 1) and expression of luciferase was confirmed by luminescence after exposure to luciferin (Figure 2).

Storage
Store vial in liquid nitrogen immediately upon receipt.
Formulation
Cells are cryopreserved in 0.5 ml - 1 ml of 90% FBS + 10% DMSO.
Thaw Protocol
Partially immerse the vial in a 37°C water bath with gentle shaking until most of the medium is thawed. In a tissue culture hood, add 1 ml of pre-warmed culture medium into the vial and immediately transfer the contents of the vial to a centrifuge tube containing 5-10 ml of pre-warmed culture medium. Centrifuge the tube at room temperature for 5 minutes, aspirate the supernatant and suspend the cell pellet in 5-10 ml of pre-warmed culture medium.
Culture Protocol
4T1-HER2-LUC is an adherent cell line. Culture the cells in RPMI-1640 medium containing 10% FBS using a humidified incubator set to 5% CO ₂ . When the cell monolayer is nearly confluent, use trypsin-EDTA to detach the cells from the culture flask and immediately neutralize the trypsin by adding fresh, pre-warmed culture medium to the cells. Cells should be passaged at least twice per week.
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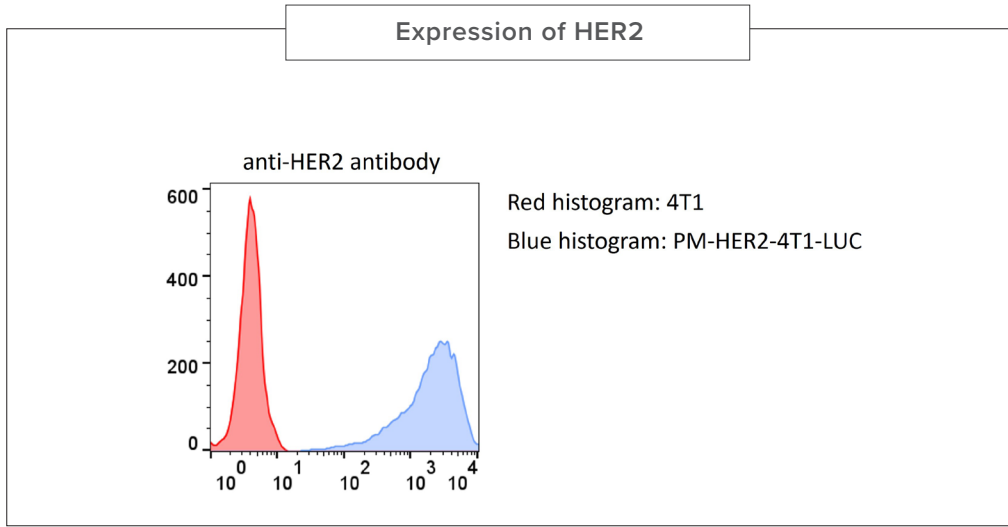


Figure 1. PM-HER2-4T1-LUC cells and parental 4T1 cells were stained with an antibody specific for HER2. The HER2 antibody bound to PM-HER2-4T1-LUC cells but not to 4T1 cells.

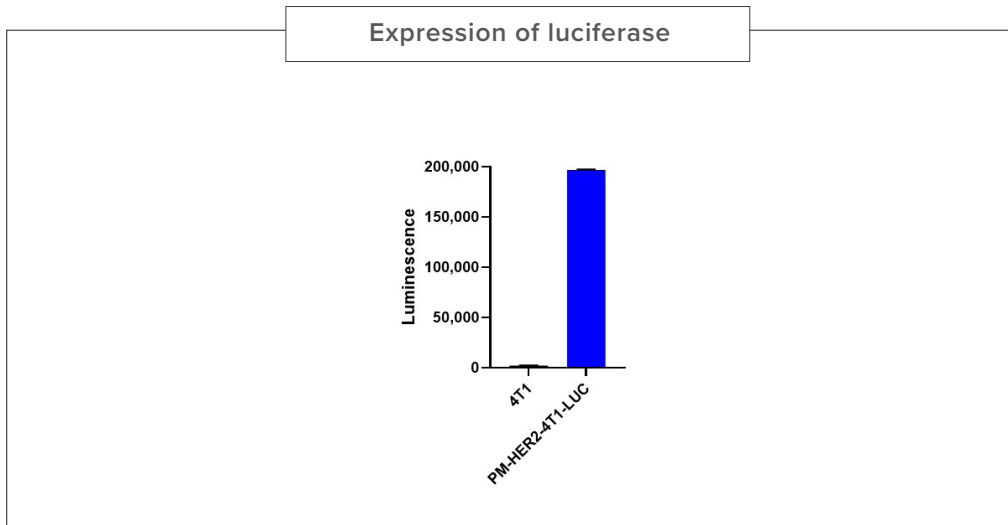


Figure 2. PM-HER2-4T1-LUC cells and parental 4T1 cells were lysed and incubated with luciferin to assess luciferase expression. Only PM-HER2-4T1-LUC cells became luminescent.

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