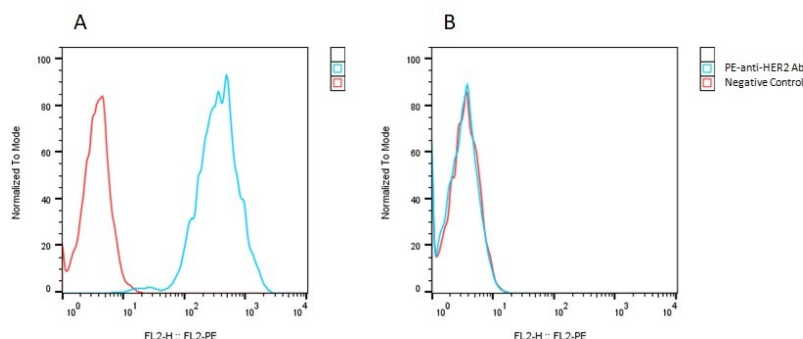


SPECIFICATIONS

Cell Line Name	Human Receptor protein tyrosine kinase erbB-2 (HER2) EMT6 stable cell line (HuHER2-EMT6)
Catalog Number	C3103
Accession Number	NP_004439
Host Cell	EMT6, mouse breast carcinoma
Quantity	Two vials of frozen cells (2×10^6 per vial)
Culture Medium	DMEM with 10% FBS, 2 μ g/ml puromycin
Freezing Medium	90% FBS and 10% DMSO
Storage	Liquid nitrogen

DATA

Detection of human HER2 expression on human HER2-EMT6 stable cells (A) or the parental EMT6 cells (B) using anti-human-HER2 Ab (Trastuzumab) (Cat. #A1019).



THAWING AND CULTURING

- Remove the cell vial from liquid nitrogen tank and thaw cells quickly in a 37°C water bath
- Transfer the cells to a 15 ml centrifuge tube and slowly add 5 ml of pre-warmed complete growth medium
- Centrifuge the cells at 200x g for 5 min
- Remove the supernatant
- Resuspend cell pellet with 7 ml of complete growth medium and transfer cells to a T25 flask
- Incubate cells in an incubator with 5% CO₂ at 37°C
- Split the cells twice a week or as needed.

BACKGROUND

Her-2, also called Neu and ErbB2 (human epidermal growth factor receptor 2), is a type I membrane protein that is a member of the ErbB family of receptor tyrosine kinases. ErbB family members include EGFR, ErbB2 (Neu, Her-2), ErbB3 (Her-3), and ErbB4 (Her-4) and they serve as receptors for the epidermal growth factor (EGF) family of growth factors. Her-2 is widely expressed in epithelial cells and is over-expressed on a large population of breast cancer cells. Comparing to the other members of the ErbB family, Her-2 is unique in that it has no known ligands and it can heterodimerize with the other members of the ErbB family to form higher affinity signaling complexes. Mature human Her-2 consists of 1233 amino acids (aa) with a 630 aa extracellular domain, a 23 aa transmembrane region, and a 580 aa cytoplasmic domain. Her-2 may play a variety of roles in development and regulation of cell growth and differentiation (1-6).

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