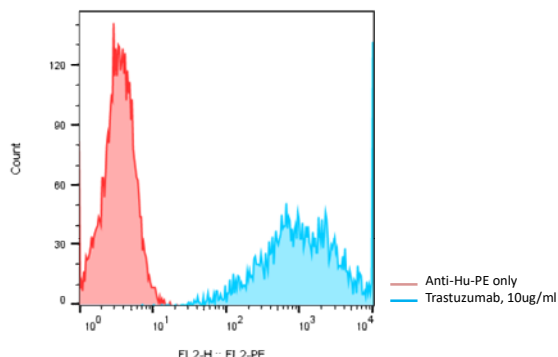


SPECIFICATIONS

Cell Line Name	CT26 stable cell line expressing receptor protein tyrosine kinase erbB-2 (HER2) from cynomolgus monkey (CynoHER2-CT26)
Catalog Number	C3041
Accession Number	XP_005584091.2
Host Cell	CT26, mouse colon carcinoma cells
Quantity	Two vials of frozen cells (2×10^6 per vial)
Culture Medium	RPMI with 10% FBS, 20 μ g/ml puromycin
Freezing Medium	90% FBS and 10% DMSO
Storage	Liquid nitrogen

DATA

Detection of CynoHER2 expression on CynoHER2-CT26 stable cells using Trastuzumab, an anti-human HER2 monoclonal antibody which cross-react with cynoHER2. (Cat.# A1019).


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).

References:

1. Ullrich, A. *et al.* (1984) *Nature* **309**:418.
2. Graus-Porta, D. *et al.* (1997) *EMBO J.* **16**:1647.
3. Singh, A.B. and R.C. Harris (2005) *Cell. Signal.* **17**:1183.
4. Burgess, A.W. *et al.* (2003) *Mol. Cell* **12**:541.
5. Roskoski Jr., R. (2004) *Biochem. Biophys. Res. Commun.* **319**:1.
6. Lemmon, M.A. *et al.* (1997) *EMBO J.* **16**:281.

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