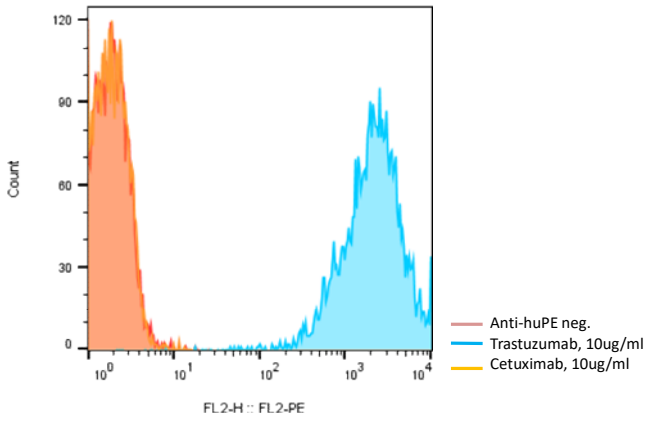
Human HER2-CT26 Stable Cell Line
Catalog Number: C3040

SPECIFICATIONS

Cell Line Name	Human Receptor protein tyrosine kinase erbB-2(HER2) CT26 stable cell line (HuHER2-CT26)
Catalog Number	C3040
Accession Number	NP_004439
Host Cell	CT26, mouse colon carcinoma cells
Quantity	Two vials of frozen cells ($2x10^6$ per vial)
Culture Medium	RPMI with 10% FBS, 10μg/ml puromycin
Freezing Medium	90% FBS and 10% DMSO
Storage	Liquid nitrogen

DATA

Detection of human HER2 expression on the human HER2-CT26 stable cell line using Trastuzumab, a monoclonal antibodies specific for human HER2 (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:

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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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