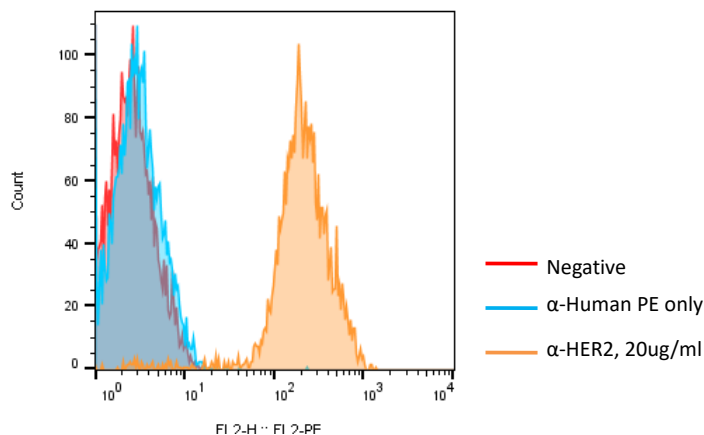


SPECIFICATIONS

Catalog Number	A1019
Product Name	Anti-human HER2
Source	Recombinant anti-human HER2 mAb produced in HEK293 cells
Original Clone	Trastuzumab
Species Reactivity	Human
Isotype	Human IgG1
Formulation	50mM NaAcetate, pH5.2. Sterile
Stability & Storage	1 month at 4°C; 12 months at <-20°C; Avoid repeated freeze-thaw
Purity	>95%
Protein Aggregation	Not obvious on SDS-PAGE
Application	Flow cytometry, ELISA, cell-based assay

DATA

- A.** Detection of HER2 expression on human colorectal adenocarcinoma cell line HCT-15 by flow cytometry. Anti-human HER2 antibody (Cat. # A1019) was incubated with human HCT-15 cells, followed by staining with PE-anti-mouse IgG.



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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