

## Technical Data Sheet

### APC Conjugated Human Her2 Protein (C-His)

**Catalog Number:** 804403, 804404

**Size:** 25 ug, 100 ug

**Target Name:** HER2, HER-2, ERBB2, CD340, neu, MLN19, NEU, NGL, TKR1

**Regulatory Status:** RUO

#### Product Details

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**Application:** FC

**Format:** Liquid, APC

**Expression Host:** CHO

**Species:** Human

**Sources:** Recombinant Human Her2 protein (Thr23-Thr652) with C-terminus His tag is expressed in CHO cells and conjugated to APC.

**Accession Number:** P04626

**Molecular Weight:** The protein has a predicted molecular weight of 71 kDa. Under DTT-reducing conditions, it migrates at approximately 85 kDa on SDS-PAGE prior to conjugation.

**Affinity Tag:** C-His

**Formulation:** 1xPBS buffer, pH7.4, 0.09% NaN<sub>3</sub> with a carrier protein

**Endotoxin level:** Not tested

**Protein Concentration:** 25µg size is bottled at 0.1mg/mL concentration. 100 µg size is bottled at lot specific concentration.

**Storage and Handling:** Briefly centrifuge the vial upon receipt. An unopened vial may be stored at 2–8°C for up to six months.

#### Background Information

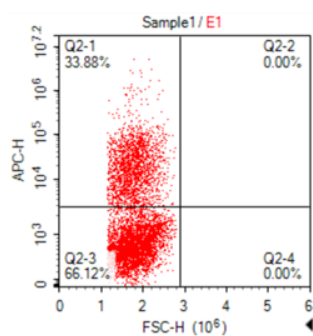
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ErbB2, also known as HER2, is a receptor tyrosine kinase that belongs to the ErbB family, which includes EGFR, ErbB2, ErbB3, and ErbB4. It plays a critical role in regulating cell growth, differentiation, and survival. Unlike other members of the ErbB family, ErbB2 does not have a ligand-binding domain. However, it can form homodimers or heterodimers with other ErbB receptors after they bind their respective ligands, leading to activation of downstream signaling pathways. ErbB2 gene amplification and protein overexpression are observed in approximately 20% of invasive breast cancers, contributing to increased aggressiveness and poor prognosis. ErbB2 is also overexpressed in other cancers, including gastric, salivary, and colorectal cancers. Trastuzumab (Herceptin), a humanized monoclonal antibody targeting ErbB2, is used in the treatment of HER2-positive breast and gastric cancers.

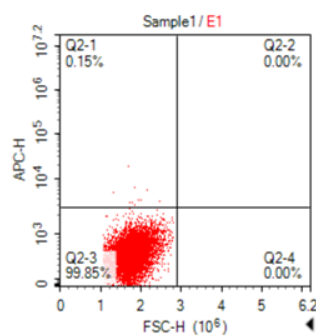
#### Product Data

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**A: Her2 CAR-transfected  
Stained with APC-Her2-His**



**B: Mock-transfected  
Stained with APC-Her2-His**



CHO cells transfected with either Her2 CAR or Mock plasmid were stained with APC conjugated Her2 (C-His) protein at 1ug\_test