

InnoCyto Inc.

15375 Barranca Pkwy, Suite I-103 Irvine, CA 92618

Technical Data Sheet

PE Conjugated Human Her2 Protein (C-His)

Catalog Number: 804401, 804402

Size: 25 ug, 100 ug

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

Regulatory Status: RUO

Product Details

Application: FC
Format: Liquid, PE
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 PE. **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% NaN3 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

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

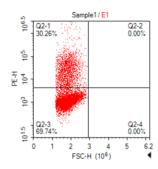


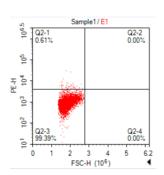
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A: Her2 CAR-transfected Stained with PE-Her2-His

B: Mock-transfected Stained with PE-Her2-His





CHO cells transfected with either Her2 CAR or Mock plasmid were stained with PE conjugated Her2 (C-His) protein at 1ug_test