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PE Human HER2 (CD340) 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:	Flow Cytometry
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

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