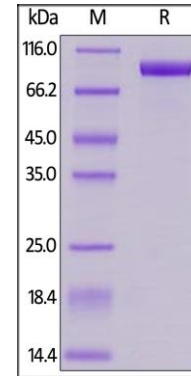


# Human CellExp™ Her2 / ErbB2, Cynomolgus Recombinant

<b>CATALOG NO:</b>	P1347-10            10 µg P1347-50            50 µg
<b>ALTERNATE NAMES:</b>	ERBB2, CD340, HER-2/neu, HER2, MLN19, NEU, NGL, TKR1
<b>SOURCE:</b>	HEK 293 cells (Thr 23 - Thr 652)
<b>PURITY:</b>	> 95% by SDS – PAGE
<b>MOL. WEIGHT:</b>	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 71.2 kDa. The protein migrates as 85-100 KDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
<b>ENDOTOXIN LEVEL:</b>	< 1.0 EU per 1µg of protein (determined by LAL method)
<b>FORM:</b>	Lyophilized
<b>FORMULATION:</b>	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
<b>STORAGE CONDITIONS:</b>	Store at -20°C. After reconstitution, aliquot and store at -80°C and use within 3 months. Avoid repeated freezing and thawing cycles.
<b>RECONSTITUTION:</b>	Centrifuge the vial prior to opening. Reconstitute in sterile deionized water to a concentration of 50 µg/ml. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% (W/V) HSA or BSA) is recommended for further dilution and long term storage. Do not vortex.
<b>DESCRIPTION:</b>	Human Epidermal growth factor Receptor 2 (HER2),also called ERBB2, HER-2,HER-2/neu, NEU, NGL,TKR1 and c-erb B2,and is a protein giving higher aggressiveness in breast cancers. It is a member of the ErbB protein family, more commonly known as the epidermal growth factor receptor family. HER2 is a cell membrane surface-bound receptor tyrosine kinase and is normally involved in the signal transduction pathways leading to cell growth and differentiation. HER2 is thought to be an orphan receptor, with none of the EGF family of ligands able to activate it. Approximately 30% of breast cancers have an amplification of the HER2 gene or overexpression of its protein product. Overexpression of this receptor in breast cancer is associated with increased disease recurrence and worse prognosis. HER2 appears to play roles in development, cancer,communication at the neuromuscular junction andregulation of cell growth and differentiation.
<b>SPECIFIC ACTIVITY:</b>	Immobilized Trastuzumab at 2 µg/mL (100 µL/well) can bind Cynomolgus Her2 with a linear range of 2-6 ng/mL

**A**



**B**

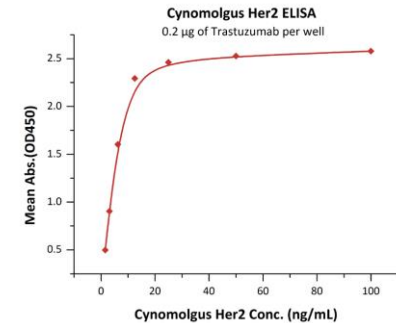


Fig. A. Cynomolgus Her2 (Cat. No. HE2-C52Hb) SDS-PAGE gel Cynomolgus Her2 on SDS-PAGE under reducing (R) condition.

Fig. B. Immobilized Trastuzumab at 2 µg/mL (100 µL/well) can bind Cynomolgus Her2 with a linear range of 2-6 ng/mL

**RELATED PRODUCT:**

- Human CellExp™ ErbB2 / HER2 / CD340, human recombinant (Cat. No. 7397)
- HER2, Active, Human Recombinant (Cat. No. 8011)
- HER2/ErbB2 (Human) ELISA Kit (Cat. No. E4357)
- Anti- Her2/Neu Antibody (IHC002) (Cat. No. A1519)
- Anti-HER2 (Trastuzumab), humanized Antibody (Cat. No. A1046)
- Anti-HER2 (c-erbB-2), Rabbit Monoclonal Antibody (Cat. No. A1134)
- HER2, Active (Cat. No. 7762)
- Human CellExp™ Her2/ErbB2, Extracellular Domain (ED), Human Recombinant (Cat. No. P1160)
- Human CellExp™ Her2 / ErbB2, Mouse Recombinant (Cat. No. P1345)

**FOR RESEARCH USE ONLY! Not to be used on humans.**