HUMAN HER2 PROTEIN, HIS TAG

Cat.#: 11214
Product Name: Human Her2 Protein
Size : 10 μg, 50 μg and 100 μg
Synonyms: ERBB2;D340;ER-2/neu;ER2;LN19;EU;GL;KR1
Target: Her2
UNIPROT ID: P04626
Description: Recombinant human Her2 Protein with C-terminal 6xHis tag
Background: This gene encodes a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. This protein has no ligand binding domain of its own and therefore cannot bind growth factors. However, it does bind tightly to other ligand-bound EGF receptor family members to form a heterodimer, stabilizing ligand binding and enhancing kinase-mediated activation of downstream signalling pathways, such as those involving mitogen-activated protein kinase and phosphatidylinositol-3 kinase. Allelic variations at amino acid positions 654 and 655 of isoform a (positions 624 and 625 of isoform b) have been reported, with the most common allele, Ile654/Ile655, shown here. Amplification and/or overexpression of this gene has been reported in numerous cancers, including breast and ovarian tumors. Alternative splicing results in several additional transcript variants, some encoding different isoforms and others that have not been fully characterized.
Species/Host: HEK293
Molecular Weight: The protein has a predicted molecular mass of 70.2 kDa after removal of the signal peptide.The apparent molecular mass of Her2-His is approximately 100-130 kDa due to glycosylation.
Molecular Characterization: Her2(Thr23-Thr652) 6×His tag
Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.
Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

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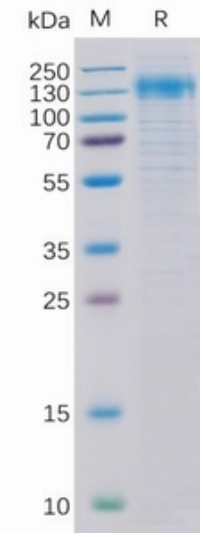


Figure 1. Human Her2 Protein, His Tag on SDS-PAGE under reducing condition.

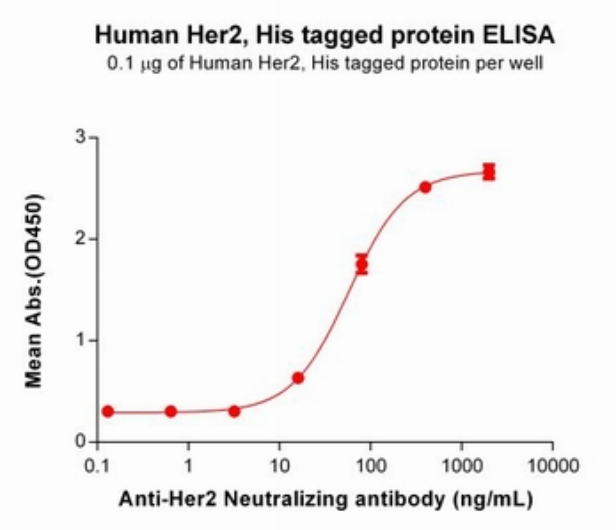


Figure 2. ELISA plate pre-coated by 1 μg/ml (100 μl/well) Human Her2,His tagged protein (11214) can bind Anti-Her2 Neutralizing antibody 28056 in a linear range of 3.2-400 ng/ml.

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