

## PRODUCT INFORMATION

<b>Target</b>	ERBB4
<b>Synonyms</b>	HER4; ALS19; p180erbB4
<b>Description</b>	Recombinant human ERBB4 Protein with C-terminal 6×His tag
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	Q15303
<b>Expression Host</b>	HEK293
<b>Tag</b>	C-6×His tag
<b>Molecular Characterization</b>	ERBB4(Gln26-Pro651) 6×His tag
<b>Molecular Weight</b>	The protein has a predicted molecular mass of 70.7 kDa after removal of the signal peptide.
<b>Purity</b>	The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.
<b>Formulation &amp; Reconstitution</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
<b>Storage&amp;Shipping</b>	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.
<b>Background</b>	This gene is a member of the Tyr protein kinase family and the epidermal growth factor receptor subfamily. It encodes a single-pass type I membrane protein with multiple cysteine rich domains, a transmembrane domain, a tyrosine kinase domain, a phosphotidylinositol-3 kinase binding site and a PDZ domain binding motif. The protein binds to and is activated by neuregulins and other factors and induces a variety of cellular responses including mitogenesis and differentiation. Multiple proteolytic events allow for the release of a cytoplasmic fragment and an extracellular fragment. Mutations in this gene have been associated with cancer. Alternatively spliced variants which encode different protein isoforms have been described; however, not all variants have been fully characterized. [provided by RefSeq, Jul 2008]
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



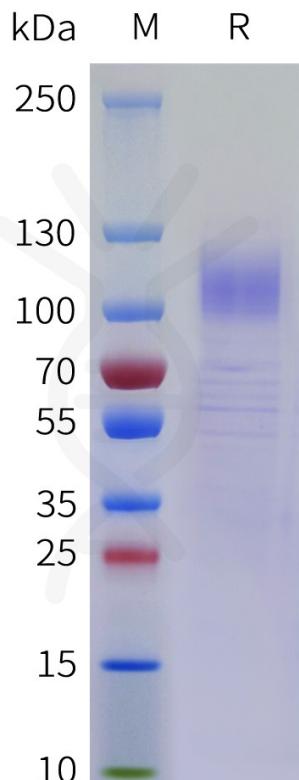
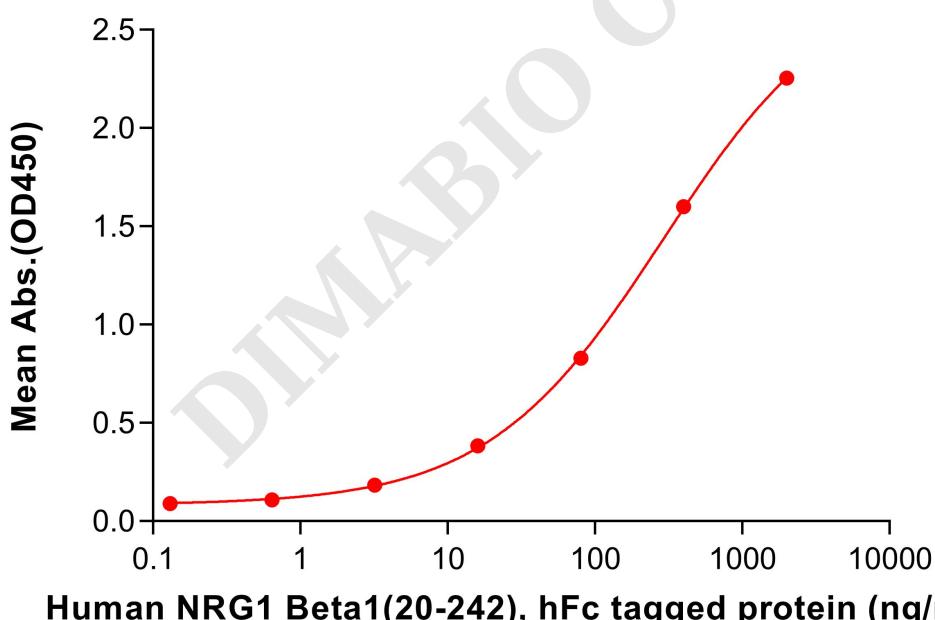


Figure 1. Human ERBB4 Protein, His Tag on SDS-PAGE under reducing condition.

### Human ERBB4, His Tagged protein ELISA

0.2  $\mu$ g of Human ERBB4, His tagged protein per well

Figure 2. ELISA plate pre-coated by 2  $\mu$ g/mL (100  $\mu$ L/well) Human ERBB4 Protein, His Tag (PME101758) Tag can bind Human NRG1 Beta1(20-242) Protein, hFc Tag (PME101643) in a linear range of 80-1000 ng/mL.