Product Name: Recombinant Human HER2 (C-6His)
Catalog #: PHH1414

Summary

Name	HER2/CD340/ERBB2/Receptor Tyrosine-Protein Kinase ErbB-2
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human Receptor Tyrosine-protein Kinase ErbB-2 is produced by our Mammalian expression system and the target gene encoding Thr23-Thr652 is expressed with a 6His tag at the C-terminus.
Accession #	P04626
Host	Human Cells
Species	Human
Predicted Molecular Mass	70.2 KDa
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM Citrate, 8% Sucrose, 0.05% Tween 80, pH 4.5.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SDS-PAGE image

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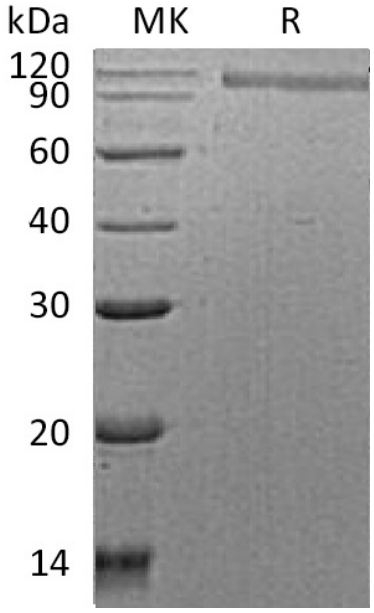

Alternative Names

Receptor tyrosine-protein kinase erbB-2; Metastatic lymph node gene 19 protein; Proto-oncogene Neu;Tyrosine kinase-type cell surface receptor HER2; ERBB2; MLN19; NGL; TKR1

Background

Human epidermal growth factor receptor 2 (HER2) is a type of membrane glycoprotein, and belongs to the epidermal growth factor (EGF) receptor family. HER2 plays a key role in development, cell proliferation and differentiation. HER2 has been reported to associate with malignancy and a poor prognosis in numerous carcinomas, including breast, prostate, ovarian, lung cancers and so on. HER2 is activated by dimerization and not activated by EGF, TGF-alpha and amphiregulin. Interaction with PTK6 increases its intrinsic kinase activity.It is heterodimer with EGFR, ERBB3 and ERBB4. HER2 associates with the 5-TCAAATTC-3 sequence in the PTGS2/COX-2 promoter and activates its transcription. It implicated in transcriptional activation of CDKN1A and the function of the protein involves STAT3 and SRC. And also it involved in the transcription of rRNA genes by RNA Pol I and enhances protein synthesis and cell growth.

Note

For Research Use Only , Not for Diagnostic Use.