

Recombinant Human ErbB-4/HER4 Protein

Catalog No.: RP00120

Sequence Information

Species	Gene ID
Human	2066
Swiss Prot	Tags
Q15303	C-hFc&His

Synonyms

ALS19,HER4,p180erbB4,ERBB4,HER4/ErbB4

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
96.43 kDa	130-150 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

This protein is a member of the Tyr protein kinase family and the epidermal growth factor receptor subfamily. It is a single-pass type I membrane protein with multiple cysteine rich domains, a transmembrane domain, a tyrosine kinase domain, a phosphatidylinositol-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.

Basic Information

Description

Recombinant Human ErbB-4/HER4 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Gln26-Arg649) of human Her4/ErbB4 (Accession #NP_005226.1) fused with an Fc, 6×His tag at the C-terminus.

Activity

Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human NRG1-beta1 at 2 μg/mL (100 μL/well) can bind Recombinant Human HER4/ErbB4, the EC₅₀ of HER4/ErbB4 is 20.99 ng/mL. 2. Measured by its binding ability in a functional ELISA. Immobilized Human ErbB4/Her4 Antibody at 1 μg/mL (25 μL/well) can bind Human ErbB4/Her4 with a linear range of 0.46-14.6 ng/mL.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

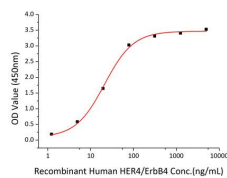
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

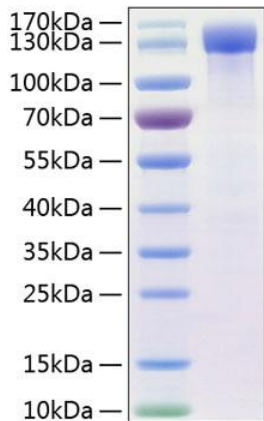
Contact

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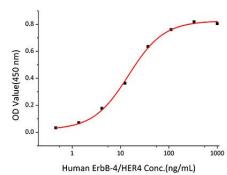
Validation Data



Immobilized Recombinant Human NRG1-beta1 at 2µg/mL (100 µL/well) can bind Recombinant Human HER4/ErbB4, the EC₅₀ of HER4/ErbB4 is 20.99ng/mL.



Recombinant Human ErbB-4/HER4 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Human ErbB4/Her4 Antibody at 1µg/mL (25 µL/well) can bind Human ErbB4/Her4 with a linear range of 0.46-14.6 ng/mL.