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Recombinant Human ErbB-4/HER4 Protein

Catalog No.: RP00120 Recombinant

Sequence Information

Species Gene ID Swiss Prot HEK293 cells 2066 Q15303

Tags

C-hFc&His

Synonyms

ALS19;HER4;p180erbB4;ERBB4;HER4/ErbB4

Product Information

Source Purification
HEK293 cells > 97% by SDS-

PAGE.

Endotoxin

 $< 0.1 \; \text{EU/}\mu\text{g}$ 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

This protein is a member of the Tyr protein kinase family and the epidermal growth factor receptor subfamily. It 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.

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.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human NRG1-beta1 at 2 μ g/mL (100 μ L/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 μ g/mL (25 μ L/well) can bind Human ErbB4/Her4 with a linear range of 0.46-14.6 ng/mL.

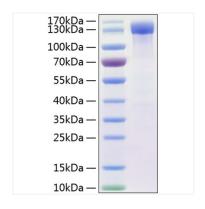
Storage

Store at -20° C. Store the lyophilized protein at -20° C to -80° C up to 1 year from the date of receipt.

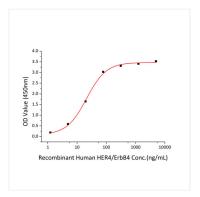
-20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

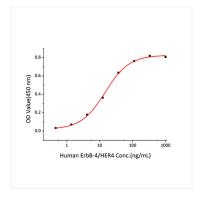
Validation Data



Recombinant Human ErbB-4/HER4 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 130-140 kDa.



Immobilized Recombinant Human NRG1-beta1 at $2\mu g/mL$ (100 $\mu L/well$) can bind Recombinant Human HER4/ErbB4, the EC₅₀ of HER4/ErbB4 is 20.99ng/mL.



Immobilized Human ErbB4/Her4 Antibody at $1\mu g/mL$ (25 $\mu L/well$) can bind Human ErbB4/Her4 with a linear range of 0.46-14.6 ng/mL.