

Datasheet for ABIN7533991
ERBB4 Protein (Fc Tag,His tag)



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Overview

Quantity:	100 µg
Target:	ERBB4
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ERBB4 protein is labelled with Fc Tag,His tag.

Product Details

Purpose:	Active Recombinant Human ErbB-4/HER4 Protein
Sequence:	QSV CAGTENK LSSLS DLEQQ YRALRKY YEN CEVVMGNLEI TSIEHN RDLS FLRSVREVTG YVLVALNQFR YLPLENLR II RGTKLYEDRY ALAIFLN YRK DGNFGLQELG LKNL TEILNG GVYVDQNKFL CYADTIHWQD IVRNPWPSNL TLVSTNGSSG CGRCHK SCTG RCWGPTENHC QTLTRTVCAE QCDGR CYGPY VSDCCHRECA GGCSGPKDTD CFACMNFNDS GACVTQCPQT FVYNPTTFQL EHNFN AKYTY GAF CVKKCPH NFVVDSSSCV RACPSSKMEV EENGIMCKP CTDICPKACD GIGTGSLMSA QTV DSSNIDK FINCTKINGN LIFLVTGIHG DPYNAIEAID PEKLN VFR TV REITGFLNIQ SWPPNMTDFS VFSNLVTIGG RVL YSGLSLL ILKQQGITSL QFQSLKEISA GNIYITDNSN LCYYHTINWT TLFSTINQRI VIRDNRKAEN CTAEGMVCNH LCSSDGCWGP GPDQCLSCRR FSRGRICIES CNLYDGEFRE FENGSI CVEC DPQCEKMEDG LLTCHGPGPD NCTKCSHF KD GPNCVEKCPD GLQGANSFIF KYADPDRECH PCHPNCTQGC NGPTSHDCIY YPWTGHSTLP QHAR
Specificity:	Gln26-Arg649

Product Details

Purity:	> 97 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.
Biological Activity Comment:	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 EC ₅₀ of HER4/ErbB4 is 20.99 ng/mL. 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.

Target Details

Target:	ERBB4
Alternative Name:	ErbB-4/HER4 (ERBB4 Products)
Background:	<p>Description: 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.</p> <p>Name: ALS19,HER4,p180erbB4,ERBB4,HER4/ErbB4</p>
Gene ID:	2066
UniProt:	Q15303
Pathways:	RTK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Handling

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.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C, -80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.