

Recombinant Human ERBB4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ERBB4-4240H Lot. No. (See product label)

SPECIFICATION

Product Overview

ERBB4 MS Standard C13 and N15-labeled recombinant protein (NP_001036064) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

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 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.

Molecular Mass

145.2 kDa

AA Sequence

MKPATGLWVWVSLVAAGTVQPSSQSV CAGTENKLSSLSDLEQQYRALRKYYEN
CEVVMGNLEITSIEHNRDLSFLRSVREVTGYVLVALNQFRYLPLENLRRIIRGKLYEDR
YALAIFLNYRKDGNFGLQELGLKNLTEILNGGVYVDQNKFLCYADTIHWQDIVRNPW

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



PSNLTLVSTNGSSGCGRCHKSTGRCWGPTEHCQTLTRTVCAEQCDGRCYGPY
VSDCCHRECAGGCSGPKDTCFACMNFNDGACVTQCPQTFVYNPTTFQLEHNF
NAKYTYGAFVCVKKCPHNFVVDSSSCVRACPSSKMEVEENGIKMCKPCTDICPKACD
GIGTGLMSAQTVDSSNIDKFINCTKINGNLIFLVTGIHGDOPYNAIEAIDPEKLNVFRTV
REITGFLNIQSWPPNMTDFSVFSNLVTIGGRVLYSGLSLLILKQQGITSLQFQSLKEIS
AGNIYITDNSNLCYYHTINWTTLFSTINQRIVIRDNRKAENCTAEGMVCNHLCSDDGC
WGPDPDQCLSCRRFSRGRICIESCNLYDGEFREFENGSIKVECDPQCEKMEDGLLT
CHGPGPDNCTKCSHFKDGPNCVEKCPDGLQGANSFIFKYADPDRECHPCHPNCTQ
GCNGPTSHDCIYYPWTGHSTLPQHARTPLIAAGVIGGLFILVIVGLTFAVYVRRKSIKK
KRALRRFLETELVEPLTPSGTAPNQAQLRILKETELKRVKVLGSGAFGTVYKGIWVPE
GETVKIPVAIKILNETTGPKANVEFMDEALIMASMDPHLVRLLGVCLSPTIQLVTQLM
PHGCLLEYVHEHKDNIGSLLLLNWCVQIAKGM MYLEERRLVHRDLAARNVLVKSPN
HVKITDFGLARLLEGDEKEYNADGGKMPIKWMALECIHYRKFTHQSDVWSYGVTIW
ELMTFGGKPYDGIPTREIPDLLEKGERLPQPPICTIDVYVMVMKCMIDADSRPKFK
ELAAEF SRMARDPQRYLVIQGDDRMKLPSPNDSKFFQNLLEEDLEDDMMDAEEYLV
PQAFNIPPIYTSRARIDSNRNQFVYRDGGFAAEQGVSVPYRAPSTIPEAPVAQGA
TAEIFDDSCCNGLTRKPVAPHVQEDSSTQRY SADPTVFAPERSPRGELDEEGYMP
MRDKPKQEYLNPEENPFVSRKNGDLQALDNPEYHNASNGPPKAEDEYVNEPLY
LNTFANTLGKAEYLKNNILSMPEKAKKAFDNPDYWNHSLPPRSTLQHPDYLQEYSTK
YFYKQNGRIRPIVAENPEYLSEFSLKPGTVLPPPPYRHRNTVVTRTRPLEQKLISEED
LAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

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Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name ERBB4 erb-b2 receptor tyrosine kinase 4 [Homo sapiens (human)]

Official Symbol ERBB4

Synonyms ERBB4; v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian); v erb a avian erythroblastic leukemia viral oncogene homolog like 4; receptor tyrosine-protein kinase erbB-4; proto-oncogene-like protein c-ErbB-4; tyrosine kinase-type cell surface receptor HER4; avian erythroblastic leukemia viral (v-erb-b2) oncogene homolog 4; HER4; p180erbB4; MGC138404;

Gene ID 2066

mRNA Refseq NM_001042599

Protein Refseq NP_001036064

MIM 600543

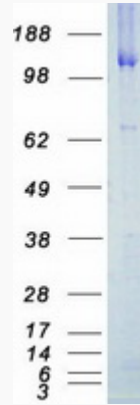
UniProt ID Q15303

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SDS-PAGE



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