

Recombinant Full Length Human ERBB4 Protein, GST-tagged

Cat. No. ERBB4-4524HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ERBB4 full-length ORF (NP_005226.1, 1 a.a. - 1308 a.a.) recombinant protein with GST tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	1308 amino acids
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. [provided by RefSeq, Jul 2008]
Molecular Mass	169.51 kDa
AA Sequence	MKPATGLWVWVSLVAAGTVQPSDSQSVCAGTENKLSSLSDLEQQYRALRKYYEN CEVVMGNLEITSIEHNRLSFLRSVREVTGYVLVALNQFRYLPLENLRIRGTKLYEDR

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YALAIFLNRYKDGNFGLQELGLKNLTEILNGGVYVDQNKFLCYADTIHWQDIVRNPW
 PSNLT LVSTNGSSGCGRCHKSTGRCWGPTENHCQTLTRTVCAEQCDGR CYGPY
 VSDCCHRECAGGCSGPKDTCFACMNFND SGACVTQCPQTFVYNPTTFQLEHNF
 NAKYTYGAFCVKKCPHNFVVDSSSCVRACPSSKMEVEENG IKMCKPCTDICPKACD
 GIGTGLMSAQTV DSSNIDKFINCTKINGNLIFLVTGIHGD PYNAIEAIDPEKLN VFRTV
 REITGFLNIQSWPPNMTDFSVFSNLVTIGGRVLYSGLSLLILKQQGITS LQFQSLKEIS
 AGNIYITDNSNLCYYHTINWTTLFSTINQRIVIRDNRKAENCTAEGMVCNHLCS SDGC
 WGP GPDQCLSCRRFSRGRICIESCNLYDGEFREFENG SICVECDPQCEK MEDGLLT
 CHGPGPDNCTKCSHF KDGPNCVEKCPDGLQGANSFIFKYADPDRECHPCHPNCTQ
 GCNGPTSHDCIYYPWTGHSTLPQHARTPLIAAGVIGGLFILVIVGLTFAVYVRRKSIKK
 KRALRRFLETELVEPLTPSGTAPNQAQLRILKETELKRVKVLGSGAFGT VYKGIWVPE
 GETVKIPVAIKILNETTGPKANVEFMDEALIMASMDHPHLVRL LGVCLSPTIQLVTQLM
 PHGCLLEYVHEHKDNIGSQLLL NWCVQIAKGMMYLEERRLVHRDLAARNVLVKSPN
 HVKITDFGLARLLEGDEKEYNADGGKMPIKWMALECIHYRK FTHQSDVWSYGVTIW
 ELMTFGGKPYDGIPTREIPDLLEKGERLPQPP ICTIDVYMVMVKCWMIDADSRPKFK
 ELAAEF SRMARDPQRYLVIQGDDRMKLPSPNDSKFFQNL LDEEDLEDMMDAEEYLV
 PQAFNIPPPIYTSRARIDSNRSEIGHSPPPAYTPMSGNQFVYRDGGFAAEQGVSVPY
 RAPSTIPEAPVAQGATAEIFDDSCCNGTLRKP VAPHVQEDSSTQRY SADPTVFAPE
 RSPRGELDEEGYMTPMRD KPKQEYLN PVEENPFVSRRKNGDLQALDNPEYHNASN
 GPPKAED EYVNEPLYLNTFANTLGKAEY LKNNILSMPEKAKKAFDNP DYWNHSLPP
 RSTLQHPDYLQEYSTKYFYKQNGRIRPIVAENPEY LSEFSLKPGTVLP PPPYRHRNT
 VV

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Notes Best use within three months from the date of receipt of this protein.

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Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name ERBB4 v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) [Homo sapiens]

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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