

Product datasheet for TP320500

ErbB 4 (ERBB4) (NM_001042599) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) (ERBB4), transcript variant JM-a/CVT-2, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA	>RC220500 representing NM_001042599
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MKPATGLWWVWVSLVAAGTVQPSDSQSV CAGTENKLSSLS DLEQQYRALRKY YENCEVVMGNLEITSIEH
NRDLSFLRSVREVTGYVLVALNQFRYLPLENLRIIRG TKLYEDRYALAI FLNRYKDG NFGQLQELGLKNLT
EILNGGVYVDQNKFLCYADTIHWQDIVRNPWPSNLT LVSTNGSSGCGRCHK SCTRWCWGPTENHCQTLTR
TVCAEQCDGRCYGPVSDCCHRECAGGCSGPKDTCFACMNF NDSGACVTQCPQTFVYNPTTFQLEHNFN
AKYTYGAF CVKKCPHNFV DSSSCVRAC PSSKMEVEENG IKMCKPCTDICPKACD GIGTGLMSAQT VDS
SNIDKFINCTKINGNLIFLVTGIHGDPYNAIEAIDPEK LNVFRTVREITGFLNIQSWPPNMTDFSVFSNL
VTIGGRVLYSGLSLILKQQGITSLQFQSLKEISAGNIYIT DNSNL CYHTINWTTLFSTINQRIVIRDN
RKAENCTAEGMVCNHL CSDGCGWGPDPQCLSCRRFSRGRICIESCNLYDGEFREFENG SICVECDPQCE
KMEDGLLTCHGPGDNCTKCSHF KDGPNCEKCPDGLQGANSFIFKYADPDRECHPCHPNCTQGCNGPTS
HDCIYYPWTGHSTLPQHARTPLIAAGVIGGLFILVIVGLTF AVYVRRKS IKKKRALRRFLETLEVEPLTP
SGTAPNQAQLRILKETELKRVKVLGSGAFGTVYKGIWVPEGETVKIPVAIKILNETTGPKANVEFMDEAL
IMASMDHPHLVRL LGVCLSPTIQLVTQLMPHGCLLEYVHEHKDNIGSQ LLLNWCVQIAKGM MYLEERRLV
HRDLAARNVLVKSPNHVKITDFGLARLLEGEKEYNADGGKMPIKWMALECIHYRKFTHQSDVWSYGVTI
WELMTFGGKPYDGIPTREIPDLLEKGERLPQPPICTIDVYMMVKCWMIDADSRPKFKELAAEF SRMARD
PQRYLVIQGD DRMKLPSPNDSKFFQNL LDEEDLEDMMDAEEYLVPQAFNIPPIYTSRARIDSNRNQFVY
RDGGFAAEQGVSPYRAP TSTIPEAPVAQGATAE IFFDSCCNGTLRKPVAPHVQEDSSTQRY SADPTVFA
PERSPRGELDEEGYMPMRDKPKQEYLN PVEENPFVSR RKNGLQALDNPEYHNASNGPPKA EDEYVNEP
LYLNTFANTLGKAEYLKNNILSMPEKAKKAFDNP DYWNHSLPPRSTLQHPDYLQEYSTKYFYKQNGRIRP
IVAENPEYLSEFSLKPGTVLPPPPYRHRNTVV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

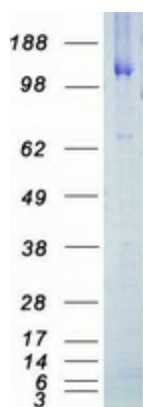
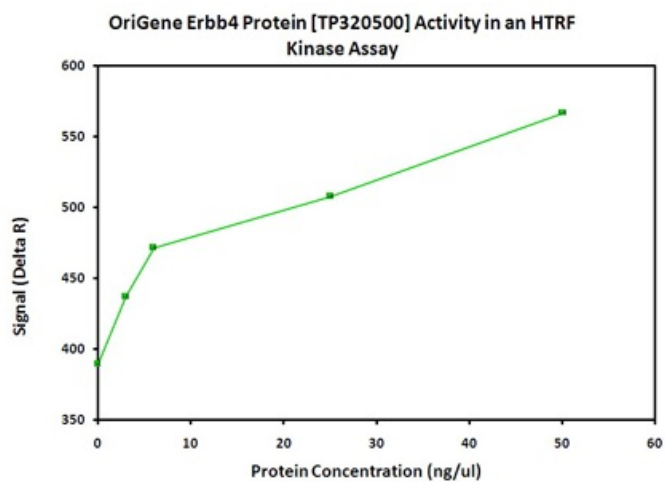
Tag:	C-Myc/DDK
Predicted MW:	142.6 kDa



[View online »](#)

Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	ErbB4 activity verified in a biochemical assay. ErbB4 (v-erb-a erythroblastic leukemia viral oncogene homolog 4) (TP320500) activity was measured in a homogeneous time-resolved fluorescent (HTRF®) assay. ErbB4 is a tyrosine protein kinase and a member of the epidermal growth factor receptor subfamily. Varying concentrations of ErbB4 were added to a reaction mix containing ATP and a biotinylated kinase substrate and the reaction mixture was incubated to allow the protein to phosphorylate the tyrosine residue in the substrate. HTRF detection reagents were then added, and the time-resolved fluorescent signal was measured on a Flexstation 3 microplate reader. The time resolved fluorescent signal is expressed as “delta R” or “ΔR” and is a ratio calculated from the fluorescent emission intensities of the donor and acceptor fluors.
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_001036064
Locus ID:	2066
UniProt ID:	Q15303
RefSeq Size:	11893
Cytogenetics:	2q34
RefSeq ORF:	3876
Synonyms:	ALS19; HER4; p180erbB4
Summary:	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]
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Calcium signaling pathway, Endocytosis, ErbB signaling pathway

Product images:



Coomassie blue staining of purified ERBB4 protein (Cat# TP320500). The protein was produced from HEK293T cells transfected with ERBB4 cDNA clone (Cat# [RC220500]) using MegaTran 2.0 (Cat# [TT210002]).