

Product datasheet for TP320500L

OriGene Technologies, Inc.

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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, 1 mg

Species: Human Expression Host: HEK293T

Expression cDNA >RC220500 representing NM 001042599

Clone or AA Sequence: Red=Cloning site Green=Tags(s)

MKPATGLWVWVSLLVAAGTVQPSDSQSVCAGTENKLSSLSDLEQQYRALRKYYENCEVVMGNLEITSIEH NRDLSFLRSVREVTGYVLVALNQFRYLPLENLRIIRGTKLYEDRYALAIFLNYRKDGNFGLQELGLKNLT EILNGGVYVDQNKFLCYADTIHWQDIVRNPWPSNLTLVSTNGSSGCGRCHKSCTGRCWGPTENHCQTLTR TVCAEQCDGRCYGPYVSDCCHRECAGGCSGPKDTDCFACMNFNDSGACVTQCPQTFVYNPTTFQLEHNFN AKYTYGAFCVKKCPHNFVVDSSSCVRACPSSKMEVEENGIKMCKPCTDICPKACDGIGTGSLMSAQTVDS SNIDKFINCTKINGNLIFLVTGIHGDPYNAIEAIDPEKLNVFRTVREITGFLNIQSWPPNMTDFSVFSNL VTIGGRVLYSGLSLLILKQQGITSLQFQSLKEISAGNIYITDNSNLCYYHTINWTTLFSTINQRIVIRDN RKAENCTAEGMVCNHLCSSDGCWGPGPDQCLSCRRFSRGRICIESCNLYDGEFREFENGSICVECDPQCE KMEDGLLTCHGPGPDNCTKCSHFKDGPNCVEKCPDGLQGANSFIFKYADPDRECHPCHPNCTQGCNGPTS HDCIYYPWTGHSTLPQHARTPLIAAGVIGGLFILVIVGLTFAVYVRRKSIKKKRALRRFLETELVEPLTP SGTAPNQAQLRILKETELKRVKVLGSGAFGTVYKGIWVPEGETVKIPVAIKILNETTGPKANVEFMDEAL IMASMDHPHLVRLLGVCLSPTIQLVTQLMPHGCLLEYVHEHKDNIGSQLLLNWCVQIAKGMMYLEERRLV HRDLAARNVLVKSPNHVKITDFGLARLLEGDEKEYNADGGKMPIKWMALECIHYRKFTHQSDVWSYGVTI WELMTFGGKPYDGIPTREIPDLLEKGERLPQPPICTIDVYMVMVKCWMIDADSRPKFKELAAEFSRMARD PQRYLVIQGDDRMKLPSPNDSKFFQNLLDEEDLEDMMDAEEYLVPQAFNIPPPIYTSRARIDSNRNQFVY RDGGFAAEQGVSVPYRAPTSTIPEAPVAQGATAEIFDDSCCNGTLRKPVAPHVQEDSSTQRYSADPTVFA PERSPRGELDEEGYMTPMRDKPKQEYLNPVEENPFVSRRKNGDLQALDNPEYHNASNGPPKAEDEYVNEP LYLNTFANTLGKAEYLKNNILSMPEKAKKAFDNPDYWNHSLPPRSTLQHPDYLQEYSTKYFYKQNGRIRP IVAENPEYLSEFSLKPGTVLPPPPYRHRNTVV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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





ErbB 4 (ERBB4) (NM_001042599) Human Recombinant Protein - TP320500L

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 phosphotidylinositol-3 kinase

binding site and a PDZ domain binding motif. The protein binds to and is activated by

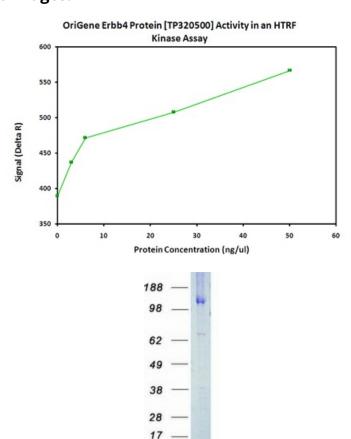
neuregulins and other factors and induces a variety of cellular responses including mitogenesis and differentiation. Multiple proteolytic events allow for the release of a cytoplasmic fragment and an extracellular fragment. Mutations in this gene have been associated with cancer. Alternatively spliced variants which encode different protein isoforms have been described; however, not all variants have been fully characterized. [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]).