Active Recombinant Human ERBB4, His-tagged, Biotinylated

Cat. No. ERBB4-622H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant human HER4 extracellular or ecto-domain (ECD) is expressed as a 637 amino acid protein consisting of Gln26-Pro651 region of HER4 and a C-terminal poly-His tag, which exists as a monomer under reducing and non-reducing conditions
Species	Human
Source	Human Cells
ProteinLength	26-651 a.a.
Form	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
Bio-activity	It was reported to inhibit the biological activity of Neuregulin-1 on MCF?7 human breast cancer cells.
Molecular Mass	Calculated molecular mass (kDa): 71.2; Estimated by SDS-PAGE under reducing condition (kDa): ~80
AA Sequence	QSVCAGTENKLSSLSDLEQQYRALRKYYENCEVVMGNLEITSIEHNRDLSFLRSVRE VTGYVLVALNQFRYLPL ENLRIIRGTKLYEDRYALAIFLNYRKDGNFGLQELGLKNLT EILNGGVYVDQNKFLCYADTIHWQDIVRNPWPS NLTLVSTNGSSGCGRCHKSCTG RCWGPTENHCQTLTRTVCAEQCDGRCYGPYVSDCCHRECAGGCSGPKDTDCF A CMNFNDSGACVTQCPQTFVYNPTTFQLEHNFNAKYTYGAFCVKKCPHNFVVDSSS CVRACPSSKMEVEENGIK MCKPCTDICPKACDGIGTGSLMSAQTVDSSNIDKFINCT

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

	KINGNLIFLVTGIHGDPYNAIEAIDPEKLNVFRTV REITGFLNIQSWPPNMTDFSVFSN LVTIGGRVLYSGLSLLILKQQGITSLQFQSLKEISAGNIYITDNSNLCYY HTINWTTLFS TINQRIVIRDNRKAENCTAEGMVCNHLCSSDGCWGPGPDQCLSCRRFSRGRICIES CNLYDGEF REFENGSICVECDPQCEKMEDGLLTCHGPGPDNCTKCSHFKDGPNCV EKCPDGLQGANSFIFKYADPDRECHPC HPNCTQGCNGPTSHDCIYYPWTGHSTLP QHARTPSTGHHHHHHHH
Endotoxin	<0.1 eu="" per="" 1="" μg="" of="" purified="" recombinant="" protein="" determined="" by="" the="" lal="">
Purity	>95% judged by SDS-PAGE under reducing condition
Storage	The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below –20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.
Conjugation	Biotin

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;

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	HER4; p180erbB4; MGC138404;
Gene ID	2066
mRNA Refseq	NM_001042599
Protein Refseq	NP_001036064
MIM	600543
UniProt ID	Q15303
Chromosome Location	2q33.3-q34
Pathway	Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Downregulation of ERBB4 signaling, organism-specific biosystem; Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem; ErbB signaling pathway, organism-specific biosystem; ErbB signaling pathway, organism-specific biosystem;
Function	ATP binding; epidermal growth factor receptor binding; nucleotide binding; protein binding; protein homodimerization activity; protein tyrosine kinase activity; receptor activity; receptor signaling protein tyrosine kinase activity; transcription regulatory region DNA binding; transmembrane receptor protein tyrosine kinase activity;

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