

Active Recombinant Human ERBB4, Fc-tagged, Biotinylated

Cat. No. ERBB4-623H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant human HER4 extracellular or ecto-domain (ECD) is expressed as a 862 amino acid protein consisting of Gln26-Pro651 region of HER4 and a C-terminal Fc from human IgG1, which exists as a dimer under non-reducing conditions.
Species	Human
Source	Human Cells
Protein Length	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 MCF7 human breast cancer cells
Molecular Mass	Calculated molecular mass (kDa): 96.3; Estimated by SDS-PAGE under reducing condition (kDa): 100
AA Sequence	QSV CAGTENKLSSLSDLEQQYRALRKYYENCEVVMGNLEITSIEHNRDLSFLRSVRE VTGYVLVALNQFRYLPL ENLRIIRGTKLYEDRYALAIFLNYRKDGNFGLQELGLKNLT EILNGGVYVDQNKFLCYADTIHWQDIVRNPWPS NLTLVSTNGSSGCGRCHKSCGTG RCWGPTENHCQTLTRTVCAEQCDGRGYGPYVSDCCHRECAGGCSGPKDTCF A CMNFNDSGACVTQCPQTFVYNPTTFQLEHNFNKYTYGAFCVKKCPHNFVVDSSS CVRACPSSKMEVEENGK MCKPCTDICPKACDGIGTGLMSAQTVDSNIDKFINCT

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KINGNLIFLVTGIHGDYPYNAIEAIDPEKLNVFRTV REITGFLNIQSWPPNMTDFSVFSN
 LVTIGGRVLYSGLSLLILKQQGITS LQFQSLKEISAGNIYITDNSNLCYY HTINWTTLS
 TINQRIVIRDNRKAENCTAEGMVCNHLCSSDGCWGPDPDQCLSCRRFSRGRICIES
 CNLYDGEF REFENGSI CVEDPQCEK MEDGLLTCHGPGPDNCTKCSHF KDGPNCV
 EKCPDGLQGANSFIFKYADPDRECHPC HPNCTQGCNGPTSHDCIYYPWTGHSTLP
 QHARTPSTGDEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTL MISRTPEVTC
 VVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNG
 KEYKCKVSN KALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFY
 PSDIAVEWESNGQPENNYKTTPPVLD SDGSFFLYSKLTVDKSRWQQGNVFSCSVM
 HEALHNHYTQKSLSLSPGK

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

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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
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;