

## Active Recombinant Human ERBB4 Protein, GST-tagged

Cat. No. ERBB4-3450H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human ERBB4 (NP_005226.1, 676 a.a. - 562 a.a.) full-length recombinant protein with GST tag expressed in Baculovirus infected Sf21 cells.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	<p>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]</p>
<b>Form</b>	Liquid
<b>Bio-activity</b>	The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluorescence-labeled substrate and Mg (or Mn)/ATP. The phosphorylated and unphosphorylated substrates were separated and detected by

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	<p>LabChip™3000. Substrate: Srctide. ATP: 100 μl.</p>
<b>Molecular Mass</b>	99 kDa
<b>Purity</b>	73 % by SDS-PAGE/CBB staining.
<b>Applications</b>	<p>Functional Study SDS-PAGE</p>
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.05% Brij35, 1 mM DTT, 10% glycerol)
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	ERBB4 v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) [ Homo sapiens ]
<b>Official Symbol</b>	ERBB4
<b>Synonyms</b>	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;
<b>Gene ID</b>	2066
<b>mRNA Refseq</b>	NM_001042599

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**Protein Refseq** NP\_001036064

**MIM** 600543

**UniProt ID** Q15303

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