

## Active Recombinant Human ERBB2 Protein, GST-tagged

Cat. No. ERBB2-3442H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human ERBB2 Protein (NP_004439.1, 676-1255aa), was expressed in Sf21 cells (Baculovirus infected) with GST tag.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	676-1225 aa
<b>Description</b>	<p>This gene encodes a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. This protein has no ligand binding domain of its own and therefore cannot bind growth factors. However, it does bind tightly to other ligand-bound EGF receptor family members to form a heterodimer, stabilizing ligand binding and enhancing kinase-mediated activation of downstream signalling pathways, such as those involving mitogen-activated protein kinase and phosphatidylinositol-3 kinase. Allelic variations at amino acid positions 654 and 655 of isoform a (positions 624 and 625 of isoform b) have been reported, with the most common allele, Ile654/Ile655, shown here. Amplification and/or overexpression of this gene has been reported in numerous cancers, including breast and ovarian tumors. Alternative splicing results in several additional transcript variants, some encoding different isoforms and others that have not been fully characterized. [provided by RefSeq, Jul 2008]</p>
<b>Form</b>	Liquid
<b>Bio-activity</b>	The activity was determined by ELISA. The enzyme was incubated with biotinylated

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peptide in streptavidin-coated ELISA plate. Phosphorylation was detected by HRP-labeled anti-phospho antibody.  
 Substrate: Lyn substrate peptide.  
 ATP: 5  $\mu$ M

**Molecular Mass** 67 kDa

**Purity** 71 % by SDS-PAGE/CBB staining.

**Applications** Functional Study  
 SDS-PAGE

**Storage** Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer** In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.1% CHAPS, 1 mM DTT, 10% glycerol)

## GENE INFORMATION

**Gene Name** ERBB2 v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian) [ Homo sapiens ]

**Official Symbol** ERBB2

**Synonyms** ERBB2; v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian); NGL, v erb b2 avian erythroblastic leukemia viral oncogene homolog 2 (neuro/glioblastoma derived oncogene homolog); receptor tyrosine-protein kinase erbB-2; CD340; HER 2; HER2; NEU; herstatin; p185erbB2; proto-oncogene Neu; c-erb B2/neu protein; proto-oncogene c-ErbB-2; metastatic lymph node gene 19 protein; tyrosine kinase-type cell surface receptor HER2; neuroblastoma/glioblastoma derived oncogene homolog; v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2 (neuro/glioblastoma

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derived oncogene homolog); NGL; TKR1; HER-2; MLN 19; HER-2/neu;

**Gene ID** 2064

**mRNA Refseq** NM\_001005862

**Protein Refseq** NP\_001005862

**MIM** 164870

**UniProt ID** P04626

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