

# Recombinant Human V-Erb-B2 Erythroblastic Leukemia Viral Oncogene Homolog 2, Neuro/Glioblastoma Derived Oncogene Homolog (avian), His-tagged

**Cat. No.** ERBB2-1215H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human ERBB2 Protein cytoplasmic domain (676-1255aa), was expressed in Insect Cells with His tag (no special measures for kinase activation).                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 676-1255 aa                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | ERBB2 stands for "Human Epidermal growth factor Receptor 2" and is a protein giving higher aggressiveness in breast cancers. It is a member of the ErbB protein family, more commonly known as the epidermal growth factor receptor family. HER2/neu has also been designated as CD340 (cluster of differentiation 340) and p185. It is encoded by the ERBB2 gene. |
| <b>Form</b>             | Liquid in 50 mM Tris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.01% CHAPS + 2 mM DTT + 50% glycerol.                                                                                                                                                                                                                                                                  |
| <b>Molecular Weight</b> | 68.6 kDa                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage</b>          | Stable for 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                               |
| <b>Official Symbol</b>  | ERBB2                                                                                                                                                                                                                                                                                                                                                              |

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## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | ERBB2 v-erb-b2 erythroblasticleukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogenehomolog (avian) [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>            | ERBB2; v-erb-b2erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derivedoncogene homolog (avian); NEU; NGL; HER2; TKR1; CD340; HER-2; MLN 19;HER-2/neu; receptor tyrosine-protein kinase erbB-2; herstatin; p185erbB2; proto-oncogeneNeu; c-erb B2/neu protein; proto-oncogene c-ErbB-2; metastatic lymph nodegene 19 protein; tyrosine kinase-type cell surface receptor HER2; neuroblastoma/glioblastomaderived oncogene homolog; v-erb-b2 avian erythroblastic leukemia viraloncogene homolog 2 (neuro/glioblastoma derived oncogene homolog) |
| <b>Gene ID</b>             | 2064                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>mRNA Refseq</b>         | NM_004448                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Protein Refseq</b>      | NP_004439                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>MIM</b>                 | 164870                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>UniProt ID</b>          | P04626                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Chromosome Location</b> | 17q11.2-q12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Pathway</b>             | Adherens junction;Alpha6-Beta4 Integrin Signaling Pathway; Axon guidance; Bladder cancer; Calciumsignaling pathway; Developmental Biology; Endometrial cancer; ErbB receptorsignaling network; ErbB signaling pathway; ErbB2/ErbB3 signaling events;Focal Adhesion; Focal adhesion; Non-small cell lung cancer;                                                                                                                                                                                                                                                     |

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Pancreaticcancer; Sema4D in semaphorin signaling

**Function**

ATP binding; ErbB-3class receptor binding; Hsp90 protein binding; RNA polymerase I core binding;epidermal growth factor-activated receptor activity; glycoprotein binding;contributes\_to growth factor binding; identical protein binding; nucleotidebinding; protein C-terminus binding; protein binding; protein dimerizationactivity; protein heterodimerization activity; protein phosphatase binding;receptor activity

**PDBrendering based  
on 1n8z.**

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