

## ERBB2 抗原

中文名称： ERBB2 抗原

英文名称： ERBB2 antigen

相关类别： 抗原

储 存： 冷冻（-20℃）

### 概述

Synthetic peptide corresponding to a region derived from 1240-1255 amino acids of human ERBB2

### 技术规格

|                       |   |
|-----------------------|---|
| <b>Full name</b>      | erb-b2 receptor tyrosine kinase 2   |
| <b>Synonyms</b>       | NEU; NGL; HER2; TKR1; CD340; HER-2; MLN 19; HER-2/neu   |
| <b>Swissprot</b>      | P04626  |
| <b>Gene Accession</b> | NP_004439   |
| <b>Background</b>     | <p>The ErbB2 (HER2) proto-oncogene encodes a 185 kDa transmembrane, receptor-like glycoprotein with intrinsic tyrosine kinase activity. While ErbB2 lacks an identified ligand, ErbB2 kinase activity can be activated in the absence of a ligand when overexpressed and through heteromeric associations with other ErbB family members. Amplification of the ErbB2 gene and overexpression of its product are detected in almost 40% of human breast cancers. Binding of the c-Cbl ubiquitin ligase to ErbB2 at Tyr1112 leads to ErbB2 poly-ubiquitination and enhances degradation of this kinase. ErbB2 is a key therapeutic target in the treatment of breast cancer and other carcinomas and targeting the regulation of ErbB2 degradation by the c-Cbl-regulated proteolytic pathway is one potential therapeutic strategy. Phosphorylation of the kinase domain residue Tyr877 of ErbB2 (homologous to Tyr416 of pp60c-Src) may be involved in regulating ErbB2 biological activity. The major autophosphorylation sites in Erb</p> |

B2 are Tyr1248 and Tyr1221/1222; phosphorylation of these sites couples ErbB2 to the Ras-Raf-MAP kinase signal transduction pathway.