

**Phospho-ErbB2(Y1222) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP3902a****Specification**

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**Phospho-ErbB2(Y1222) Blocking Peptide - Product Information**Primary Accession [P04626](#)**Phospho-ErbB2(Y1222) Blocking Peptide - Additional Information****Gene ID** 2064**Other Names**

Receptor tyrosine-protein kinase erbB-2, Metastatic lymph node gene 19 protein, MLN 19, Proto-oncogene Neu, Proto-oncogene c-ErbB-2, Tyrosine kinase-type cell surface receptor HER2, p185erbB2, CD340, ERBB2, HER2, MLN19, NEU, NGL

**Target/Specificity**

The synthetic peptide sequence is selected from aa 1200-1240 of Human ERBB2

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**Phospho-ErbB2(Y1222) Blocking Peptide - Protein Information****Name** ERBB2**Synonyms** HER2, MLN19, NEU, NGL**Function**

Protein tyrosine kinase that is part of several cell surface receptor complexes, but that apparently needs a coreceptor for ligand binding. Essential component of a neuregulin-receptor complex, although neuregulins do not interact with it alone. GP30 is a potential ligand for this receptor. Regulates outgrowth and stabilization of peripheral microtubules (MTs). Upon ERBB2 activation, the MEMO1-RHOA-DIAPH1 signaling pathway elicits the phosphorylation and thus the inhibition of GSK3B at cell membrane. This prevents the phosphorylation of APC and CLASP2, allowing its association with the cell membrane. In turn, membrane-bound APC allows the localization of MACF1 to the cell membrane, which is required for microtubule capture and stabilization.

**Cellular Location**

Cell membrane; Single-pass type I membrane protein. Cell projection, ruffle membrane;

Single-pass type I membrane protein. Note=Internalized from the cell membrane in response to EGF stimulation. [Isoform 2]: Cytoplasm. Nucleus.

**Tissue Location**

Expressed in a variety of tumor tissues including primary breast tumors and tumors from small bowel, esophagus, kidney and mouth.

**Phospho-ErbB2(Y1222) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**Phospho-ErbB2(Y1222) Blocking Peptide - Images****Phospho-ErbB2(Y1222) Blocking Peptide - Background**

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**Phospho-ErbB2(Y1222) Blocking Peptide - References**

Ehsani A., et al. Genomics 15:426-429(1993).  
Yamamoto T., et al. Nature 319:230-234(1986).  
Coussens L., et al. Science 230:1132-1139(1985).  
Wakamatsu A., et al. Submitted (OCT-2007) to the EMBL/GenBank/DDBJ databases.  
Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.