



# Magic™ Anti-HER2/neu (Phospho T) polyclonal antibody (CPBT-65684RH)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

### Product Overview

This antibody recognises human HER2/neu, otherwise known as CD340 and c-ErbB-2, phosphorylated at threonine residue (amino acid 686). Some binding to unphosphorylated HER2/neu may be seen at higher concentrations, but this may be overcome by appropriate titration. HER2/neu is a proto-oncogene expressed at the cell surface of a range of tumour cells, which is often associated with poor prognosis, and an increased risk of metastasis, and is used in conjunction with antibodies recognising both Estrogen and Progesterone receptors, for the classification of breast cancer tumours, and to determine patient prognosis and course of treatment. Excessive HER2/neu is present in around 20% to 25% of invasive breast cancers, referred to as HER2-positive cancer, and can help determine whether drugs such as trastuzumab (Herceptin) or lapatinib (Tykerb), might be beneficial.

**Specificity** HER2/neu

**Target** HER2/neu

**Immunogen** Threonine phosphorylated peptide KIRKYTMRRLL from HER2/neu sequence.

**Isotype** IgG

**Source/Host** Rabbit

**Species Reactivity** Human

**Conjugate** Unconjugated

**Applications** IHC-Fr; ELISA; WB

**Format** Serum - liquid

**Size** 100 µl

<b>Preservative</b>	0.09% Sodium Azide
<b>Storage</b>	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">ERBB2 erb-b2 receptor tyrosine kinase 2 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	ERBB2
<b>Synonyms</b>	ERBB2; erb-b2 receptor tyrosine kinase 2; NEU; NGL; HER2; TKR1; CD340; HER-2; MLN 19; HER-2/neu; receptor tyrosine-protein kinase erbB-2; herstatin; p185erbB2; proto-oncogene Neu; c-erb B2/neu protein; proto-oncogene c-ErbB-2; metastatic lymph node gene 1
<b>Entrez Gene ID</b>	<a href="#">2064</a>
<b>Protein Refseq</b>	<a href="#">NP_001005862</a>
<b>UniProt ID</b>	P04626
<b>Chromosome Location</b>	17q12
<b>Pathway</b>	Adaptive Immune System; Adherens junction; Alpha6-Beta4 Integrin Signaling Pathway; Axon guidance; Bladder cancer; Calcium signaling pathway; Central carbon metabolism in cancer; Constitutive PI3K/AKT Signaling in Cancer;
<b>Function</b>	ATP binding; ErbB-3 class receptor binding; RNA polymerase I core binding; contributes_to growth factor binding; identical protein binding; protein C-terminus binding; protein binding; protein dimerization activity; protein heterodimerization activity; protein phosphatase binding; protein tyrosine kinase activity; receptor signaling protein tyrosine kinase activity; transmembrane receptor protein tyrosine kinase activity; transmembrane signaling receptor activity;