

### Summary

Neu (phospho Tyr877) Rabbit Polyclonal Antibody		
Rabbit Polyclonal Antibody		
Rabbit		
ELISA,IHC,WB,		
Human, Mouse, Rat		

#### Performance

Conjugation	Unconjugated		
Modification	Phospho Antibody		
lsotype	IgG		
Clonality	Polyclonal		
Form	Liquid		
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw		
	cycles.		
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.		
Purification	Affinity purification		

## Immunogen

Gene Name	ERBB2		
Alternative Names	ERBB2; HER2; MLN19; NEU; NGL; 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; CD antigen CD340		
Gene ID	2064.0		
SwissProt ID	P04626.The antiserum was produced against synthesized peptide derived from human		
	HER2 around the phosphorylation site of Tyr877. AA range:851-900		

# Application

<b>Dilution Ratio</b>	WB 1:500 - 1:2000	IHC 1:100 - 1:300. ELISA: 1:10000
Molecular Weight	180kD	

## Background

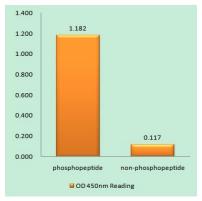
This gene encodes a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. This protein has no ligand binding domain of its own and therefore cannot bind growth factors. However, it does bind tightly to other ligand-bound EGF receptor family members to form a heterodimer, stabilizing ligand binding and enhancing kinasemediated 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 dcatalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,disease:Defects in ERBB2 are associated with familial glioma of brain [MIM:137800]; also called glioblastoma multiforme. Gliomas are central nervous system neoplasms derived from glial cells and comprise astrocytomas, glioblastoma multiforme, oligodendrogliomas, and ependymomas., disease:Defects in ERBB2 are associated with gastric cancer [MIM:137215]; also known as hereditary familial diffuse gastric cancer (HDGC), disease: Defects in ERBB2 are associated with lung cancer [MIM:211980]; also called adenocarcinoma of lung, disease: Defects in ERBB2 are associated with ovarian cancer [MIM:167000]. Ovarian cancer is the leading cause of death from gynecologic malignancy. It is characterized by advanced presentation with loco-regional dissemination in the peritoneal cavity and the rare incidence of visceral metastases. These typical features relate to the biology of the disease, which is a principal determinant of outcome., function: Essential component of a neuregulin-receptor complex, although neuregulins do not interact with it alone. GP30 is a potential ligand for this receptor. Not activated by EGF, TGF-alpha and amphiregulin., online information: ERBB2 entry, polymorphism: There are fours alleles due to the variations in positions 654 and 655. Allele B1 (IIe-654/IIe-655) has a frequency of 0.782; allele B2 (IIe-654/Val-655) has a frequency of 0.206; allele B3 (Val-654/Val-655) has a frequency of 0.012., PTM:Ligand-binding increases phosphorylation on tyrosine residues,,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. EGF receptor subfamily, similarity: Contains 1 protein kinase domain., subunit: Heterodimer with each of the other ERBB receptors (Potential). Interacts with PRKCABP and PLXNB1. Part of a complex with EGFR and either PIK3C2A or PIK3C2B. May interact with PIK3C2B when phosphorylated on Tyr-1196. Interacts with MEMO when phosphorylated on Tyr-1248. Interacts with MUC1. Stimulation by heregulin (HRG) in breast cancer cell lines induces binding of MUC1 with gamma-catenin.,

## **Research Area**

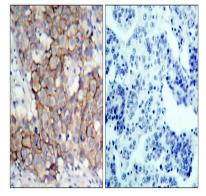
ErbB\_HER;Calcium;Focal adhesion;Adherens\_Junction;Pathways in cancer;Pancreatic cancer;Endometrial cancer;Prostate cancer;Bladder cancer;Non-small cell lung cancer;

Product Name: Neu (phospho Tyr877) Rabbit Polyclonal **Control Control Control** 

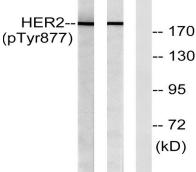
#### Image Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using HER2 (Phospho-Tyr877) Antibody



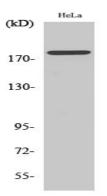
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using HER2 (Phospho-Tyr877) Antibody.



The picture on the right is blocked with the phospho peptide. HepG2 HeLa HepG2

Western blot analysis of lysates from HepG2 cells and HeLa cells, using HER2 (Phospho-Tyr877) Antibody. The lane on the right is blocked with the phospho peptide.

Product Name: Neu (phospho Tyr877) Rabbit Polyclona **Circlife** Antibody Catalog #: APRab05079



Western Blot analysis of various cells using Phospho-Neu (Y877) Polyclonal Antibody diluted at 1: 500

#### Note

For research use only.