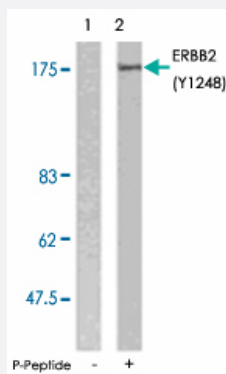


# ERBB2 (phospho Y1248) polyclonal antibody

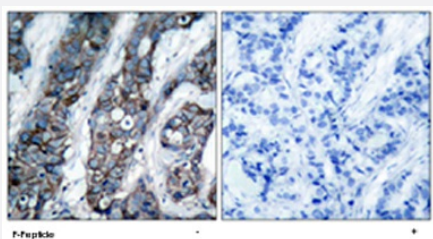
Catalog # PAB25298      Size 100 ug

## Applications



### Western Blot (Cell lysate)

Western blot analysis of extracts from SK-OV-3 cells using ERBB2 (phospho Y1248) polyclonal antibody (Cat # PAB25298).



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using ERBB2 (phospho Y1248) polyclonal antibody (Cat # PAB25298).

## Specification

|                             |                                                                                      |
|-----------------------------|--------------------------------------------------------------------------------------|
| <b>Product Description</b>  | Rabbit polyclonal antibody raised against synthetic phosphopeptide of ERBB2.         |
| <b>Immunogen</b>            | Synthetic phosphopeptide corresponding to residues surrounding Y1248 of human ERBB2. |
| <b>Sequence</b>             | P-E-Yp-L-G                                                                           |
| <b>Host</b>                 | Rabbit                                                                               |
| <b>Theoretical MW (kDa)</b> | 185                                                                                  |
| <b>Reactivity</b>           | Human, Mouse, Rat                                                                    |

|                     |                                                                                                                                                                            |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form                | Liquid                                                                                                                                                                     |
| Purification        | Affinity chromatography                                                                                                                                                    |
| Concentration       | 1 mg/mL                                                                                                                                                                    |
| Recommend Usage     | Immunohistochemistry (1:50-1:100)<br>Western Blot (1:500-1:1000)<br>Immunofluorescence (1:100-1:200)<br>The optimal working dilution should be determined by the end user. |
| Storage Buffer      | In PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)                                                            |
| Storage Instruction | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                                                         |
| Note                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                                     |

## Applications

- Western Blot (Cell lysate)

Western blot analysis of extracts from SK-OV-3 cells using ERBB2 (phospho Y1248) polyclonal antibody (Cat # PAB25298).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using ERBB2 (phospho Y1248) polyclonal antibody (Cat # PAB25298).

- Immunofluorescence

## Gene Info — ERBB2

|                    |                                                                                                                |
|--------------------|----------------------------------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">2064</a>                                                                                           |
| Protein Accession# | <a href="#">P04626</a>                                                                                         |
| Gene Name          | ERBB2                                                                                                          |
| Gene Alias         | CD340, HER-2, HER-2/neu, HER2, NEU, NGL, TKR1                                                                  |
| Gene Description   | v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian) |
| Omim ID            | <a href="#">137215</a> <a href="#">137800</a> <a href="#">164870</a> <a href="#">211980</a>                    |

## Gene Ontology

[Hyperlink](#)

## Gene Summary

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 kinase-mediated 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 different isoforms and others that have not been fully characterized. [provided by RefSeq]

## Other Designations

c-erb B2/neu protein|erbB-2|herstatin|neuroblastoma/glioblastoma derived oncogene homolog|v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2 (neuro/glioblastoma derived oncogene homolog)

## Pathway

- [Adherens junction](#)
- [Bladder cancer](#)
- [Calcium signaling pathway](#)
- [Endometrial cancer](#)
- [ErbB signaling pathway](#)
- [Focal adhesion](#)
- [Non-small cell lung cancer](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)

## Disease

- [Adenocarcinoma](#)
- [Ataxia telangiectasia](#)
- [Brain Neoplasms](#)

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cell Transformation](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colorectal Neoplasms](#)
- [Disease Progression](#)
- [Endometrial Neoplasms](#)
- [Esophageal Neoplasms](#)
- [Fibroadenoma](#)
- [Gastritis](#)
- [Genetic Predisposition to Disease](#)
- [Glioma](#)
- [Head and Neck Neoplasms](#)
- [Heart Diseases](#)
- [Kidney Failure](#)
- [Laryngeal Neoplasms](#)
- [Lung Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Mouth Neoplasms](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Obesity](#)

- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Papillomavirus Infections](#)
- [Pharyngeal Neoplasms](#)
- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Skin Neoplasms](#)
- [Stomach Neoplasms](#)
- [Thyroid Neoplasms](#)
- [Tooth Abnormalities](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Cervical Neoplasms](#)
- [Werner syndrome](#)