

## Rabbit anti-Human Phospho-ErbB2 (Y1221) Polyclonal Antibody | anti-ERBB2 antibody

Phospho-ErbB2 (Y1221) Antibody

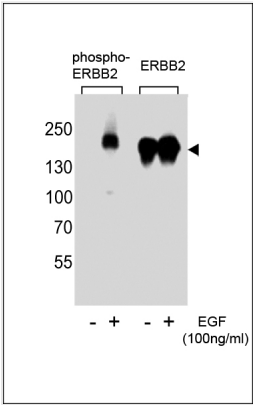
|                               |                       |                            |                                            |
|-------------------------------|-----------------------|----------------------------|--------------------------------------------|
| CATALOG #<br><b>AAA286938</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------|--------------------------------------------|

### PRODUCT SYNONYMS

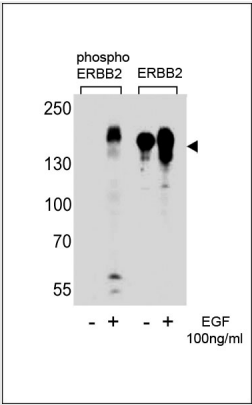
Phospho-ErbB2 (Y1221); Polyclonal Antibody; Phospho-ErbB2 (Y1221) Antibody; Receptor tyrosine-protein kinase erbB-2; Metastatic lymph node gene 19 protein; MLN 19; Proto-oncogene Neu; Proto-oncogene c-ErbB-2; Tyrosine kinase-type cell surface receptor HER2; p185erbB2; CD340; ERBB2; HER2; MLN19; NEU; NGL; anti-ERBB2 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                               |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                        |
| Reactivity                                      | Human                                                                                                                                                                         |
| Clonality                                       | Polyclonal                                                                                                                                                                    |
| Isotype                                         | Rabbit Ig                                                                                                                                                                     |
| Specificity                                     | This ERBB2 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding Y1221 of human ERBB2. |
| Purity/Purification                             | Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                    |
| Form/Format                                     | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.  |
| Concentration                                   | Vial Concentration: 0.45 (varies by lot)                                                                                                                                      |
| Sequence Length                                 | 1225                                                                                                                                                                          |
| Applicable Applications for anti-ERBB2 antibody | ELISA, WB (Western Blot)                                                                                                                                                      |
| Antigen Type                                    | Synthetic Peptide                                                                                                                                                             |
| Crown Antibody                                  | Yes                                                                                                                                                                           |
| Antigen Source                                  | Human                                                                                                                                                                         |
| Preparation and Storage                         | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                        |



**WB (Western Blot)**  
Western blot analysis of extracts from A431 cells, untreated or treated with EGF, 100 ng/ml, using phospho-ERBB2-Y1221 (left) or ERBB2 antibody (right).



**WB (Western Blot)**  
Western blot analysis of extracts from A431 cells, untreated or treated with EGF, 100 ng/ml, using phospho-ErbB2-Y1221 (left) or ErbB2 antibody (right).

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-ERBB2 antibody | 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. In the nucleus is involved in transcriptional regulation. Associates with the 5'-TCAAATTC-3' sequence in the PTGS2/COX-2 promoter and activates its transcription. Implicated in transcriptional activation of CDKN1A; the function involves STAT3 and SRC. Involved in the transcription of rRNA genes by RNA Pol I and enhances protein synthesis and cell growth. |
| Product Categories/Family for anti-ERBB2 antibody   | Crown Antibodies; Cancer; Signal Transduction; Phospho Antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| References                                          | Ehsani A., et al. Genomics 15:426-429(1993).<br>Yamamoto T., et al. Nature 319:230-234(1986).<br>Coussens L., et al. Science 230:1132-1139(1985).<br>Wakamatsu A., et al. Submitted (OCT-2007) to the EMBL/GenBank/DDBJ databases.<br>Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

NCBI AND UNIPROT INFORMATION

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| NCBI GI #                        | 54792098                                               |
| NCBI GeneID                      | 2064                                                   |
| NCBI Accession #                 | NP_001005862.1; NP_004439.2                            |
| NCBI GenBank Nucleotide #        | NM_001005862.2                                         |
| UniProt Accession #              | P04626; Q14256; Q6LDV1; Q9UMK4; B2RZG3; B4DHN3; X5D2V5 |
| Molecular Weight                 | 137910                                                 |
| NCBI Official Full Name          | receptor tyrosine-protein kinase erbB-2 isoform b      |
| NCBI Official Synonym Full Names | erb-b2 receptor tyrosine kinase 2                      |
| NCBI Official Symbol             | ERBB2                                                  |
| NCBI Official Synonym Symbols    | NEU; NGL; HER2; TKR1; CD340; HER-2; MLN 19; HER-2/neu  |

|                            |                                         |
|----------------------------|-----------------------------------------|
| NCBI Protein Information   | receptor tyrosine-protein kinase erbB-2 |
| UniProt Protein Name       | Receptor tyrosine-protein kinase erbB-2 |
| UniProt Gene Name          | <b>ERBB2</b>                            |
| UniProt Synonym Gene Names | HER2; MLN19; NEU; NGL; MLN 19           |
| UniProt Entry Name         | ERBB2_HUMAN                             |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/phospho-erb2-y1221-antibody-western-blot-elisa/286938>