

## Rabbit anti-Human ERBB2 Polyclonal Antibody | anti-ERBB2 antibody

ERBB2 Antibody (C-term Y1139)

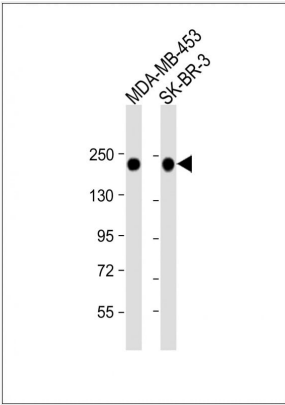
| CATALOG # | HOST   | REACTIVITY | APPLICATIONS        |
|-----------|--------|------------|---------------------|
| AAA290679 | Rabbit | Human      | ELISA, Western Blot |

### PRODUCT SYNONYMS

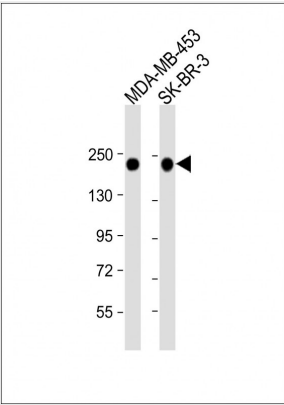
ERBB2; Polyclonal Antibody; ERBB2 Antibody (C-term Y1139); Receptor tyrosine-protein kinase erbB-2; Metastatic lymph node gene 19 protein; MLN 19; Proto-oncogene Neu; Proto-oncogene c-ErbB-2; Tyrosine kinase-type cell surface receptor HER2; p185erbB2; CD340; HER2; MLN19; NEU; NGL; anti-ERBB2 antibody

### PRODUCT SPECIFICATIONS

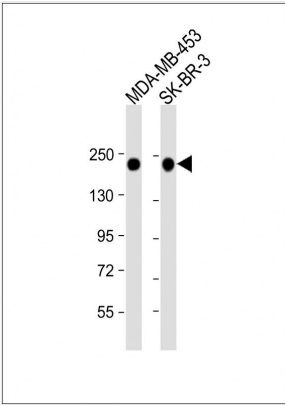
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|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                                               |
| Reactivity                                      | Human                                                                                                                                                                                                                                                                |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                                           |
| Isotype                                         | Ig                                                                                                                                                                                                                                                                   |
| Specificity                                     | This ERBB2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1119-1146 amino acids from the C-terminal region of human ERBB2.                                                                                             |
| 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.                                                                                         |
| Sequence Length                                 | 1225                                                                                                                                                                                                                                                                 |
| Applicable Applications for anti-ERBB2 antibody | ELISA, WB (Western Blot)                                                                                                                                                                                                                                             |
| Subtitle                                        | Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                                                                                                           |
| Cellular Location                               | Isoform 1: Cell membrane; Single-pass type I membrane protein. Cytoplasm, perinuclear region. Nucleus.<br>Note=Translocation to the nucleus requires endocytosis, probably endosomal sorting and is mediated by importin beta-1/KPNB1 Isoform 3: Cytoplasm. Nucleus. |
| Tissue Location                                 | Expressed in a variety of tumor tissues including primary breast tumors and tumors from small bowel, esophagus, kidney and mouth.                                                                                                                                    |
| Antigen Region                                  | 1119-1146 aa                                                                                                                                                                                                                                                         |
| Antigen Type                                    | Synthetic Peptide                                                                                                                                                                                                                                                    |
| 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)**  
All lanes : Anti-ERBB2 Antibody (C-term Y1139) at 1:2000 dilutionLane 1: MDA-MB-453 whole cell lysateLane 2: SK-BR-3 whole cell lysateLysates/proteins at 20 ug per lane.SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.Predicted band size : 138 kDaBlocking/Dilution buffer: 5% NFDm/TBST.



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ADDITIONAL INFORMATION

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|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Related Product Information for anti-ERBB2 antibody</b></p> | <p>Description: 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.</p> <p>Background: 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.</p> |
| <p><b>Product Categories/Family for anti-ERBB2 antibody</b></p>   | <p>Primary Antibodies; Cancer; Signal Transduction</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| References | Geradts, J., et al. Cancer Invest. 28 (9):969-977 (2010). Zaoui, K., et al. Proc. Natl. Acad. Sci. U.S.A. 107 (43):18517-18522 (2010). Oliveras, G., et al. Ann. N. Y. Acad. Sci. 1210, 86-92 (2010). Han, J.S., et al. Anticancer Res. 30 (9):3407-3412 (2010). Stackiewicz, R., et al. Isr. Med. Assoc. J. 12 (5):290-295 (2010). |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| NCBI GI #                        | 54792098                                               |
| NCBI GeneID                      | 2064                                                   |
| NCBI Accession #                 | NP_001005862.1                                         |
| NCBI GenBank Nucleotide #        | NM_001005862.2                                         |
| UniProt Accession #              | P04626; Q14256; Q6LDV1; Q9UMK4; B2RZG3; B4DHN3; X5D2V5 |
| Molecular Weight                 | 137910 Da                                              |
| 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                | ERBB2                                                  |
| 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.