

Rabbit anti-Human Phospho-ERBB2 (Y1127) Polyclonal Antibody | anti-ERBB2 antibody

Phospho-ERBB2 (Y1127) Antibody

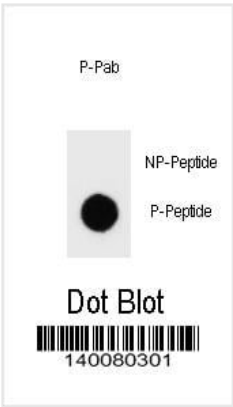
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290180	Rabbit	Human	Dot Blot, Immunofluorescence, ELISA, Western Blot

PRODUCT SYNONYMS

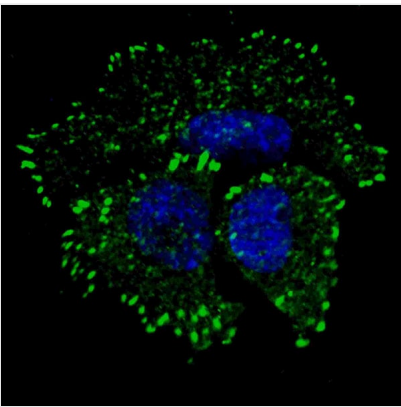
Phospho-ERBB2 (Y1127); Polyclonal Antibody; Phospho-ERBB2 (Y1127) Antibody; Receptor tyrosine-protein kinase erbB-2; Metastatic lymph node gene 19 protein; MLN 19; Proto-oncogene Neu; Proto-oncogene c-ErbB-2; Tyrosine kinase-type cell surface receptor HER2; p185erbB2; CD340; ERBB2; HER2; MLN19; NEU; NGL; anti-ERBB2 antibody

PRODUCT SPECIFICATIONS

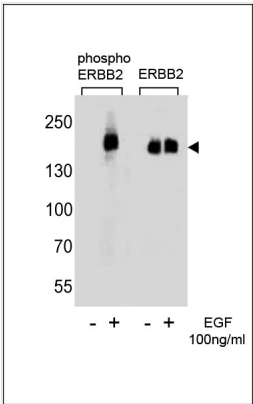
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This ERBB2 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding Y1127 of human ERBB2.
Purity/Purification	Peptide Affinity Purified Rabbit 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.
Sequence Length	887
Applicable Applications for anti-ERBB2 antibody	DB (Dot Blot), IF (Immunofluorescence), ELISA, WB (Western Blot)
Function	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.
Cellular Location	[Isoform 1]: Cell membrane; Single-pass type I membrane protein Early endosome. Cytoplasm, perinuclear region. Nucleus. Note=Translocation to the nucleus requires endocytosis, probably endosomal sorting and is mediated by importin beta-1/KPNB1. Also detected in VPS35-positive endosome-to-TGN retrograde vesicles (PubMed:31138794). [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.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



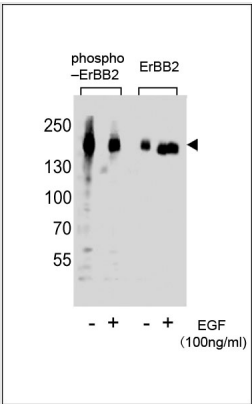
DB (Dot Blot)
Dot blot analysis of Phospho-ERBB2-Y1127 Antibody Phospho-specific Pab on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6ug per ml.



IF (Immunofluorescence)
Fluorescent confocal image of MCF7 cells stained with phospho-ERBB2-Y1127 antibody. MCF7 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then incubated with AAA290180 phospho-ERBB2- Y1127 primary antibody (1:100, 2 h at room temperature). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10 ug/ml, 5 min). Note the highly specific localization of the phospho-ERBB2-Y1127 to the plasma membrane and cytoplasm.



WB (Western Blot)
Western blot analysis of extracts from A431 cells, untreated or treated with EGF, 100ng/ml using phospho ERBB2-Y1127(left) or ERBB2 antibody(right)



WB (Western Blot)
Western blot analysis of extracts from A431 cells, untreated or treated with EGF, 100ng/ml, using Phospho-ERBB2-Y1127 or ERBB2 antibody(right).

ADDITIONAL INFORMATION

Related Product Information for anti-ERBB2 antibody	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.
Product Categories/Family for anti-ERBB2 antibody	Crown Antibodies; Cardiovascular; Neuroscience; Signal Transduction; GPCR Antibodies

References	References for protein: 1.Geradts, J., et al. Cancer Invest. 28(9):969-977(2010) 2.Zaoui, K., et al. Proc. Natl. Acad. Sci. U.S.A. 107(43):18517-18522(2010) 3.Oliveras, G., et al. Ann. N. Y. Acad. Sci. 1210, 86-92 (2010) 4.Han, J.S., et al. Anticancer Res. 30(9):3407-3412(2010) 5.Stackievicz, R., et al. Isr. Med. Assoc. J. 12(5):290-295(2010) References for MCF7 cell line: 1.Soule, HD; Vazquez J; Long A; Albert S; Brennan M. (1973). "A human cell line from a pleural effusion derived from a breast carcinoma". Journal of the National Cancer Institute 51 (5): 1409-1416. [PMID 4357757]. 2.Levenson, AS; Jordan VC. (1997). "MCF-7: the first hormone-responsive breast cancer cell line". Cancer Research 57 (15): 3071-3078. [PMID 9242427]. 3.Lacroix, M; Leclercq G. (2004). "Relevance of breast cancer cell lines as models for breast tumours: an update". Breast Research and Treatment 83 (3): 249-289.[PMID 14758095].
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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	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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/phospho-erb2-y1127-antibody-dot-blot-immunofluorescence-western-blot-elisa/290180>