

ERBB2 Antibody(C-term Y1248)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP7629d

Product Information

Application WB, IHC-P, E Primary Accession P04626

Other Accession P06494, P70424

Reactivity Human **Predicted** Mouse, Rat Host Rabbit Clonality Polyclonal Isotype Rabbit IgG **Clone Names** RB15814 **Calculated MW** 137910 **Antigen Region** 1227-1255

Additional Information

Gene ID 2064

Other Names 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

Target/SpecificityThis ERBB2 antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 1227-1255 amino acids from the

C-terminal region of human ERBB2.

Dilution WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.

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.

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.

Precautions ERBB2 Antibody(C-term Y1248) is for research use only and not for use in

diagnostic or therapeutic procedures.

Protein Information

Name ERBB2

Synonyms HER2, MLN19, NEU, NGL

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

Cellular Location Cell membrane; Single-pass type I membrane protein. Cell projection, ruffle

microtubule capture and stabilization.

membrane; Single-pass type I membrane protein. Note=Internalized from the cell membrane in response to EGF stimulation. [Isoform 2]: Cytoplasm.

Nucleus.

Tissue Location Expressed in a variety of tumor tissues including primary breast tumors and

tumors from small bowel, esophagus, kidney and mouth.

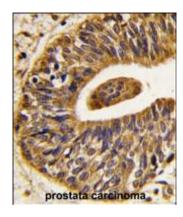
Background

ErbB2, a member of the EGF receptor family, is an essential component of a neuregulin-receptor complex, although neuregulins do not interact with it alone. GP30 is a potential ligand for this receptor. This protein is not activated by EGF, TGF-alpha and amphiregulin. ErbB2 potentially forms a heterodimer with each of the other ERBB receptors. An interaction with PRKCABP has been suggested. Ligand-binding to this Type I membrane protein may increase phosphorylation on tyrosine residues.

References

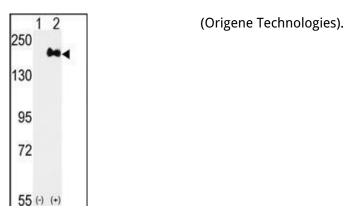
Ehsani, A., et al., Genomics 15(2):426-429 (1993). Yamamoto, T., et al., Nature 319(6050):230-234 (1986). Coussens, L., et al., Science 230(4730):1132-1139 (1985). Semba, K., et al., Proc. Natl. Acad. Sci. U.S.A. 82(19):6497-6501 (1985).

Images



Formalin-fixed and paraffin-embedded human prostata carcinoma tissue reacted with ErbB2 Antibody (C-term Y1248), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Western blot analysis of ERBB2(arrow) using rabbit polyclonal ERBB2 Antibody (Y1248) (Cat.#AP7629d). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the ERBB2 gene (Lane 2)



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