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Datasheet

ERBB2 polyclonal antibody

Catalog Number: PAB18351

Regulation Status: For research use only (RUO)

Product Description: Rabbit polyclonal antibody raised against synthetic peptide of ERBB2.

Immunogen: A synthetic peptide corresponding to human ERBB2.

Host: Rabbit

Reactivity: Human,Mouse,Rat

Applications: ELISA, IF
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Specificity: This antibody is specific to ERBB2.

Form: Liquid

Purification: Affinity purification

Concentration: 1 mg/mL

Recommend Usage: Immunofluorescence (1:500-1:1000)
ELISA (1:20000)
The optimal working dilution should be determined by the end user.

Storage Buffer: In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)

Storage Instruction: Store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 2064

Gene Symbol: ERBB2

Gene Alias: CD340, HER-2, HER-2/neu, HER2, NEU, NGL, TKR1

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]

References:

1. Global, in vivo, and site-specific phosphorylation dynamics in signaling networks. Olsen JV, Blagoev B, Gnad F, Macek B, Kumar C, Mortensen P, Mann M. Cell. 2006 Nov 3;127(3):635-48.
2. Class II phosphoinositide 3-kinases are downstream targets of activated polypeptide growth factor receptors. Arcaro A, Zvelebil MJ, Wallasch C, Ullrich A, Waterfield MD, Domin J. Mol Cell Biol. 2000 Jun;20(11):3817-30.