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Datasheet

ERBB3 polyclonal antibody

Catalog Number: PAB18365

Regulation Status: For research use only (RUO)

Product Description: Rabbit polyclonal antibody raised against synthetic peptide of ERBB3.

Immunogen: A synthetic peptide corresponding to residues surrounding Y1222 of human ERBB3.

Host: Rabbit

Reactivity: Human

Applications: ELISA, IF, IHC-P, WB-Ce
(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 ERBB3.

Form: Liquid

Purification: Affinity purification

Concentration: 1 mg/mL

Recommend Usage: Western Blot (1:500-1:1000)
Immunohistochemistry (1:50-1:100)
Immunofluorescence (1:500-1:1000)
ELISA (1:10000)
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: 2065

Gene Symbol: ERBB3

Gene Alias: ErbB-3, HER3, LCCS2, MDA-BF-1, MGC88033, c-erbB-3, c-erbB3, erbB3-S, p180-ErbB3, p45-sErbB3, p85-sErbB3

Gene Summary: This gene encodes a member of the epidermal growth factor receptor (EGFR) family of receptor tyrosine kinases. This membrane-bound protein has a neuregulin binding domain but not an active kinase domain. It therefore can bind this ligand but not convey the signal into the cell through protein phosphorylation. However, it does form heterodimers with other EGF receptor family members which do have kinase activity. Heterodimerization leads to the activation of pathways which lead to cell proliferation or differentiation. Amplification of this gene and/or overexpression of its protein have been reported in numerous cancers, including prostate, bladder, and breast tumors. Alternate transcriptional splice variants encoding different isoforms have been characterized. One isoform lacks the intermembrane region and is secreted outside the cell. This form acts to modulate the activity of the membrane-bound form. Additional splice variants have also been reported, but they have not been thoroughly characterized. [provided by RefSeq]

References:

1. Lethal congenital contractural syndrome type 2 (LCCS2) is caused by a mutation in ERBB3 (Her3), a modulator of the phosphatidylinositol-3-kinase/Akt pathway. Narkis G, Ofir R, Manor E, Landau D, Elbedour K, Birk OS. Am J Hum Genet. 2007 Sep;81(3):589-95. Epub 2007 Jul 24.
2. Neuroglycan C, a novel member of the neuregulin family. Kinugasa Y, Ishiguro H, Tokita Y, Oohira A, Ohmoto H, Higashiyama S. Biochem Biophys Res Commun. 2004 Sep 3;321(4):1045-9.