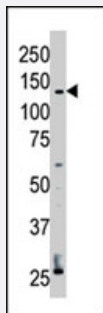


ERBB4 polyclonal antibody

Catalog # PAB3038

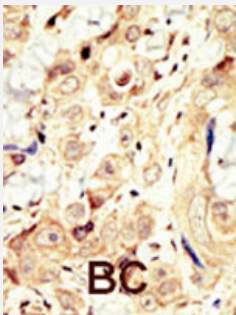
Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of ERBB4 polyclonal antibody (Cat # PAB3038) in HL-60 cell lysate. ERBB4 (Arrow) was detected using purified polyclonal antibody. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with ERBB4 polyclonal antibody (Cat # PAB3038), 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. BC = breast carcinoma.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ERBB4.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human ERBB4.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification

Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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Gene Info — ERBB4

Entrez GeneID	2066
Protein Accession#	Q15303
Gene Name	ERBB4
Gene Alias	HER4, MGC138404, p180erbB4
Gene Description	v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian)
Omim ID	600543
Gene Ontology	Hyperlink

Gene Summary

This gene is a member of the Tyr protein kinase family and the epidermal growth factor receptor subfamily. It encodes a single-pass type I membrane protein with multiple cysteine rich domains, a transmembrane domain, a tyrosine kinase domain, a phosphatidylinositol-3 kinase binding site and a PDZ domain binding motif. The protein binds to and is activated by neuregulins and other factors and induces a variety of cellular responses including mitogenesis and differentiation. Multiple proteolytic events allow for the release of a cytoplasmic fragment and an extracellular fragment. Mutations in this gene have been associated with cancer. Alternatively spliced variants which encode different protein isoforms have been described; however, not all variants have been fully characterized. [provided by RefSeq]

Other Designations

avian erythroblastic leukemia viral (v-erb-b2) oncogene homolog 4|receptor tyrosine-protein kinase erbB-4|tyrosine kinase-type cell surface receptor HER4|v-erb-a avian erythroblastic leukemia viral oncogene homolog-like 4|v-erb-a erythroblastic leukemia v

Publication Reference

- [ERBB2 and PTPN2 gene copy numbers as prognostic factors in HER2-positive metastatic breast cancer treated with trastuzumab.](#)

Ellegård S, Veenstra C, Pérez-Tenorio G, Fagerström V, Gårsjö J, Gert K, Sundquist M, Malmström A, Wingren S, Elander NO, Hallbeck AL, Stål O.

Oncology Letters 2019 Mar; 17(3):3371.

Application: IHC-P, Human, Human breast cancer

- [Aberrant accumulation of ErbB4 in progressive supranuclear palsy.](#)

Murakami A, Nakamura M, Kaneko S, Lin WL, Dickson DW, Kusaka H.

Neuropathology and Applied Neurobiology 2018 Jan; [Epub].

Application: IEM, IF, IHC-P, Human, Brains from patients with progressive supranuclear palsy

- [Ectodomain cleavage of ErbB-4: characterization of the cleavage site and m80 fragment.](#)

Cheng QC, Tikhomirov O, Zhou W, Carpenter G.

The Journal of Biological Chemistry 2003 Oct; 278(40):38421.

Application: IP, WB, Human, T47D, T47-14 cells

- [WW domain-containing protein YAP associates with ErbB-4 and acts as a co-transcriptional activator for the carboxyl-terminal fragment of ErbB-4 that translocates to the nucleus.](#)

Komuro A, Nagai M, Navin NE, Sudol M.

The Journal of Biological Chemistry 2003 Aug; 278(35):33334.

Application: IF, Monkey, COS-7 cells

- [A constitutively active ErbB4 mutant inhibits drug-resistant colony formation by the DU-145 and PC-3 human prostate tumor cell lines.](#)

Williams EE, Trout LJ, Gallo RM, Pitfield SE, Bryant I, Penington DJ, Riese DJ 2nd.

Cancer Letters 2003 Mar; 192(1):67.

Application: IP, WB-Tr, Mouse, Mouse C127 fibroblasts

Pathway

- [Calcium signaling pathway](#)
- [Endocytosis](#)
- [ErbB signaling pathway](#)

Disease

- [Adenocarcinoma](#)
- [Attention](#)
- [Autistic Disorder](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Celiac Disease](#)
- [Cell Transformation](#)
- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)
- [Disease Susceptibility](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Glioma](#)

- [Lung Neoplasms](#)
- [Melanoma](#)
- [Memory](#)
- [Mental Retardation](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Psychotic Disorders](#)
- [Reaction Time](#)
- [Schizophrenia](#)
- [Skin Neoplasms](#)
- [Tobacco Use Disorder](#)