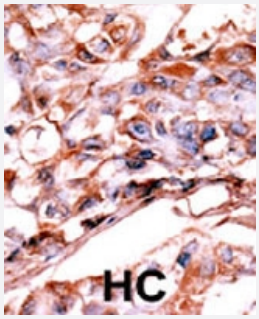
ERBB4 (phospho Y1188) polyclonal antibody

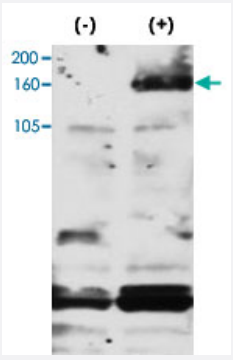
Catalog # PAB0487 Size 400 uL

Applications



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

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with ERBB4 (phospho Y1188) polyclonal antibody (Cat # PAB0487) which was peroxidase-conjugated to the secondary antibody followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. HC = hepatocarcinoma.



Western Blot (Cell lysate)

ERBB4 (phospho Y1188) polyclonal antibody (Cat # PAB0487) was used to detect Phospho-ERBB4-Y1188 in FG pancreatic carcinoma cell line lysate. FG pancreatic carcinoma cells treated with or without EGF (50 ng/ml) for 15 min PPhospho-ERBB4-Y1188 Antibody (Cat # PAB0487) was used with 3% BSA. Data and protocol kindly provided by Dr. Weis of Cheresh Lab, UCSD.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of ERBB4.
Immunogen	Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding Y1188 of human ERBB4.
Host	Rabbit
Reactivity	Human
Form	Liquid

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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 shoul d be handled by trained staff only.

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Gene Info — ERBB4

Entrez GeneID	2066
Protein Accession#	NP_005226;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

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Gene Summary	This gene is a member of the Tyr protein kinase family and the epidermal growth factor receptor s ubfamily. It encodes a single-pass type I membrane protein with multiple cysteine rich domains, a transmembrane domain, a tyrosine kinase domain, a phosphotidylinositol-3 kinase binding site a nd a PDZ domain binding motif. The protein binds to and is activated by neuregulins and other fac tors 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. M utations in this gene have been associated with cancer. Alternatively spliced variants which encod e different protein isoforms have been described; however, not all variants have been fully charact erized. [provided by RefSeq
Other Designations	avian erythroblastic leukemia viral (v-erb-b2) oncogene homolog 4|receptor tyrosine-protein kinas e erbB-4|tyrosine kinase-type cell surface receptor HER4|v-erb-a avian erythroblastic leukemia vir al oncogene homolog-like 4|v-erb-a erythroblastic leukemia v

Publication Reference

- Changes in the expression and cytological localization of betacellulin and its receptors (ErbB-1 and ErbB-4) in the trophoblasts in human placenta over the course of pregnancy.

  Tanimura K, Nakago S, Murakoshi H, Takekida S, Moriyama T, Matsuo H, Hashimoto K, Maruo T.

  European Journal of Endocrinology 2004 Jul; 151(1):93.

- Cell surface expression of epidermal growth factor receptor and Her-2 with nuclear expression of Her-4 in primary osteosarcoma.

  Hughes DP, Thomas DG, Giordano TJ, Baker LH, McDonagh KT.

  Cancer Research 2004 Mar; 64(6):2047.

- 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.

Pathway

- Calcium signaling pathway
- Endocytosis
- ErbB signaling pathway

Disease

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- 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

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