

Anti-ErbB 4/ERBB4 Antibody Picoband®

Catalog Number: PA1881

About ERBB4

ERBB4 (V-erb-b2 avian erythroblastic leukemia viral oncogene homolog 4) also known as ONCOGENE ERBB4 or HER4, is an enzyme that in humans is encoded by the ERBB4 gene. The HER4/ERBB4 gene is a member of the type I receptor tyrosine kinase subfamily that includes EGFR, ERBB2 and ERBB3. The ERBB4 gene is mapped on 2q34. ERBB4 is a single-pass type I transmembrane protein with multiple furin-like cysteine rich domains, a tyrosine kinase domain, a phosphatidylinositol-3 kinase binding site and a PDZ domain binding motif. Huang et al. (2000) reported that ERBB4 is enriched in the postsynaptic density and associates with PSD95. ERBB4 is a transmembrane receptor tyrosine kinase that regulates cell proliferation and differentiation. After binding its ligand, heregulin, or activation of protein kinase C by TPA, the ERBB4 ectodomain is cleaved by a metalloprotease. Ni et al. (2001) concluded that gamma-secretase cleavage of ERBB4 may represent another mechanism for receptor tyrosine kinase-mediated signaling.

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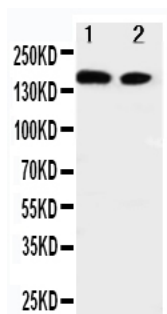
Overview

Product Name	Anti-ErbB 4/ERBB4 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-ErbB 4/ERBB4 Antibody catalog # PA1881. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q15303

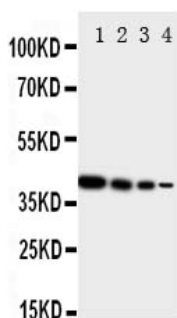
Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human ErbB 4, identical to the related rat and mouse sequences.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat

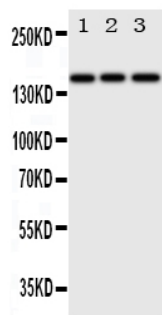
Anti-ErbB 4/ERBB4 Antibody Picoband® (PA1881) Images



Anti-ErbB 4 antibody, PA1881, Western blotting
Lane 1: A549 Cell Lysate
Lane 2: HELA Cell Lysate



Anti-ErbB 4 antibody, PA1881, Western blotting
Recombinant Protein Detection Source: E.coli derived -recombinant human ERRB4, 40.6KD (162aa tag+M1-P200)
Lane 1: Recombinant Human ERRB4 Protein 10ng
Lane 2: Recombinant Human ERRB4 Protein 5ng
Lane 3: Recombinant Human ERRB4 Protein 2.5ng
Lane 4: Recombinant Human ERRB4 Protein 1.25ng



Anti-ErbB 4 antibody, PA1881, Western blotting
Lane 1: HELA Cell Lysate
Lane 2: U87 Cell Lysate
Lane 3: NEURO Cell Lysate

Anti-ErbB 4/ERBB4 Antibody

For Research Use Only. Not for use in diagnostic procedures.