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Datasheet for ABIN3044100  
**anti-ERBB4 antibody (N-Term)**

3 Images

Overview

Quantity:	100 µg
Target:	ERBB4
Binding Specificity:	AA 35-51, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Receptor tyrosine-protein kinase erbB-4(ERBB4) detection. Tested with WB in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human ErbB 4(35-51aa KLSSLSLDLEQQYRALRK), identical to the related rat and mouse sequences.
Sequence:	KLSSLSLDLEQ QYRALRK
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Receptor tyrosine-protein kinase erbB-4(ERBB4) detection. Tested with WB in Human,Mouse,Rat. Gene Name: v-erb-a erythroblastic leukemia viral oncogene homolog 4(avian) Protein Name: Receptor tyrosine-protein kinase erbB-4
Purification:	Immunogen affinity purified.

## Target Details

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Target: ERBB4

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Alternative Name: ERBB4 ([ERBB4 Products](#))

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Background: 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 domainbinding 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.

Synonyms: 4ICD antibody|Avian erythroblastic leukemia viral oncogene homolog 4 antibody|Avian erythroblastic leukemia viral v erb b2 oncogene homolog 4 antibody|E4ICD antibody|EC 2.7.10.1 antibody|ErbB4 antibody|ERBB4 intracellular domain antibody|ERBB4\_HUMAN antibody|HER 4 antibody|HER4 antibody|Mer4 antibody|MGC138404 antibody|Oncogene ERBB4 antibody|P180erbB4 antibody|Proto-oncogene-like protein c-ErbB-4 antibody|Receptor protein tyrosine kinase erbB 4 precursor antibody|Receptor tyrosine protein kinase erbB 4 antibody|s80HER4 antibody|Tyrosine kinase type cell surface receptor HER4 antibody|Tyrosine kinase-type cell surface receptor HER4 antibody|v erb a avian erythroblastic leukemia viral oncogene homolog like 4 antibody|v erb a erythroblastic leukemia viral oncogene homolog 4 antibody|v-erb-a erythroblastic leukemia viral oncogene homolog 4(avian) antibody|V-ERB-B2 avian erythroblastic leukemia viral oncogene homolog 4 antibody|Verba avian erythroblastic leukemia viral oncogene homolog like 4 antibody|Verba erythroblastic leukemia viral oncogene homolog 4 antibody|VERBB2 antibody

UniProt: [Q15303](#)

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Pathways: [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#)

## Application Details

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Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat, The detection limit for

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## Application Details

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ERBB4 is approximately 0.5 ng/lane under reducing conditions.

Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities.

Other applications have not been tested. Optimal dilutions should be determined by end users.

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Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

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Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

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Concentration: 500 µg/mL

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Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

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Preservative: Thimerosal (Merthiolate), Sodium azide

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Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

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Handling Advice: Avoid repeated freezing and thawing.

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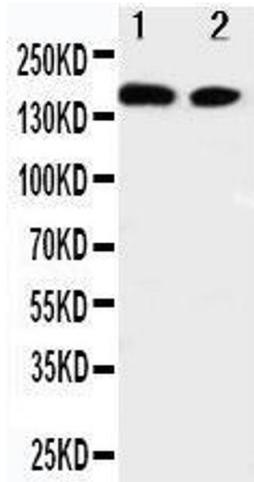
Storage: 4 °C/-20 °C

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Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.  
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

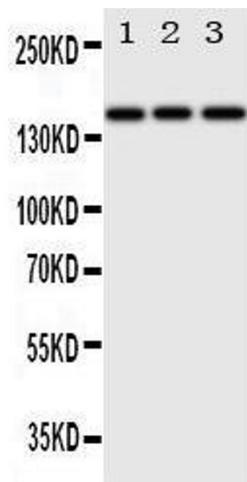
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Expiry Date: 12 months



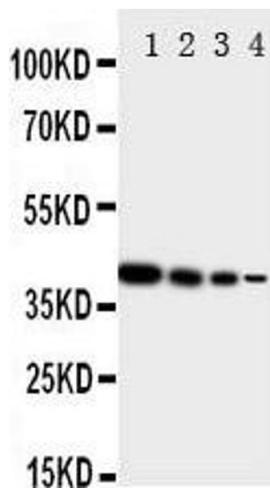
#### Western Blotting

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



#### Western Blotting

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



#### Western Blotting

**Image 3.** Lane 4: Recombinant Human ERBB4 Protein 1.25ng