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Datasheet for ABIN7167466

## anti-ERBB4 antibody (AA 1027-1204)

2 Images



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Quantity:	100 μg
Target:	ERBB4
Binding Specificity:	AA 1027-1204
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ERBB4 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF)

### **Product Details**

Immunogen:	Recombinant Human Receptor tyrosine-protein kinase erbB-4 protein (1027-1204AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

## Target Details

Target:	ERBB4
Alternative Name:	ERBB4 (ERBB4 Products)
Background:	Background: Tyrosine-protein kinase that plays an essential role as cell surface receptor for
	neuregulins and EGF family members and regulates development of the heart, the central

nervous system and the mammary gland, gene transcription, cell proliferation, differentiation, migration and apoptosis. Required for normal cardiac muscle differentiation during embryonic development, and for postnatal cardiomyocyte proliferation. Required for normal development of the embryonic central nervous system, especially for normal neural crest cell migration and normal axon guidance. Required for mammary gland differentiation, induction of milk proteins and lactation. Acts as cell-surface receptor for the neuregulins NRG1, NRG2, NRG3 and NRG4 and the EGF family members BTC, EREG and HBEGF. Ligand binding triggers receptor dimerization and autophosphorylation at specific tyrosine residues that then serve as binding sites for scaffold proteins and effectors. Ligand specificity and signaling is modulated by alternative splicing, proteolytic processing, and by the formation of heterodimers with other ERBB family members, thereby creating multiple combinations of intracellular phosphotyrosines that trigger ligand- and context-specific cellular responses. Mediates phosphorylation of SHC1 and activation of the MAP kinases MAPK1/ERK2 and MAPK3/ERK1. Isoform JM-A CYT-1 and isoform JM-B CYT-1 phosphorylate PIK3R1, leading to the activation of phosphatidylinositol 3-kinase and AKT1 and protect cells against apoptosis. Isoform JM-A CYT-1 and isoform JM-B CYT-1 mediate reorganization of the actin cytoskeleton and promote cell migration in response to NRG1. Isoform JM-A CYT-2 and isoform JM-B CYT-2 lack the phosphotyrosine that mediates interaction with PIK3R1, and hence do not phosphorylate PIK3R1, do not protect cells against apoptosis, and do not promote reorganization of the actin cytoskeleton and cell migration. Proteolytic processing of isoform JM-A CYT-1 and isoform JM-A CYT-2 gives rise to the corresponding soluble intracellular domains (4ICD) that translocate to the nucleus, promote nuclear import of STAT5A, activation of STAT5A, mammary epithelium differentiation, cell proliferation and activation of gene expression. The ERBB4 soluble intracellular domains (4ICD) colocalize with STAT5A at the CSN2 promoter to regulate transcription of milk proteins during lactation. The ERBB4 soluble intracellular domains can also translocate to mitochondria and promote apoptosis.

Aliases: 4ICD antibody, ALS19 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, human epidermal growth factor receptor 4 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

## **Target Details**

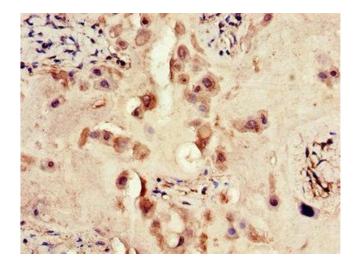
	erythroblastic leukemia viral oncogene homolog 4 (avian) antibody, V-ERB-B2 avian erythroblastic leukemia viral oncogene homolog 4 antibody, Verba avian erythroblastic leukemia viral oncogene	
	homolog 4 antibody, VERBB2 antibody	
UniProt:	Q15303	
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin	
	Signaling Pathway	

## **Application Details**

Storage Comment:

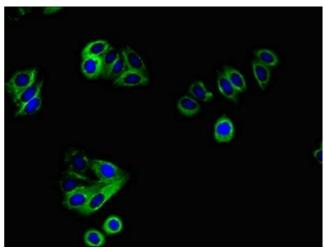
Application Notes:	Recommended dilution: IHC:1:20-1:200, IF:1:50-1:200,
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300
	Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be
	handled by trained staff only.
Storage:	-20 °C,-80 °C

Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



### **Immunohistochemistry**

**Image 1.** Immunohistochemistry of paraffin-embedded human placenta tissue using ABIN7167466 at dilution of 1:100



#### **Immunofluorescence**

**Image 2.** Immunofluorescent analysis of HepG2 cells using ABIN7167466 at dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)