

Rabbit ErbB 4 Polyclonal Antibody | anti-ErbB 4 antibody

ErbB 4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA75887	Rabbit	Human, Mouse, Rat	Western Blot, Immunoprecipitation, Immunohistochemistry, ELISA

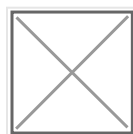
PRODUCT SYNONYMS

ErbB 4; Polyclonal Antibody; ErbB 4 Antibody; 4ICD; ALS19; E4ICD; EC 2.7.10.1; ERBB4; HER4; Mer4; MGC138404; Oncogene ERBB4; p180erbB4; Proto-oncogene-like protein c-ErbB-4; Receptor tyrosine protein kinase erbB 4; s80HER4; Tyrosine kinase type cell surface receptor HER4 antibodyv erb a avian erythroblastic leukemia viral oncogene homolog like 4 antibody; anti-ErbB 4 antibody

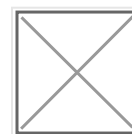
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Form/Format	Affinity Purified
Concentration	0.65-1.25 ug/ul in antibody stabilization buffer (varies by lot)
Sequence Length	1308
Applicable Applications for anti-ErbB 4 antibody	WB (Western Blot), IP (Immunoprecipitation), IHC (Immunohistochemistry), ELISA
Immunogen	Synthetic peptide taken within amino acid region 1225-1275 on human Receptor tyrosine-protein kinase erbB-4.
Immunoglobulin	IgG
Expression	Expressed at highest levels in brain, heart, kidney, in addition to skeletal muscle, parathyroid, cerebellum, pituitary, spleen, testis and breast. Lower levels in thymus, lung, salivary gland, and pancreas. Isoform JM-A CYT-1 and isoform JM-B CYT-1 are expressed in cerebellum, but only the isoform JM-B is expressed in the heart.
Molecular Function	ATP binding; epidermal growth factor receptor binding; protein homodimerization activity; receptor signaling protein tyrosine kinase activity; transcription regulatory region DNA binding; transmembrane receptor protein tyrosine kinase activity
Structure	Belongs to the protein kinase superfamily. Tyr protein kinase family. EGF receptor subfamily. Contains 1 protein kinase domain.
Subcellular Location	Cell membrane; Single-pass type I membrane protein. ERBB4 intracellular domain: Nucleus; Mitochondrion
Preparation and Storage	-20• degree C for long term storage

IMAGES



IHC (Immunohistochemisry)



IHC (Immunohiostchemistry)



IHC (Immunohistochemistry)

ADDITIONAL INFORMATION

Related Product Information for anti-ErbB 4 antibody	Affinity Purified Receptor tyrosine-protein kinase erbB-4 Antibody 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.
Product Categories/Family for anti-ErbB 4 antibody	Primary Antibodies; Cancer Research; Tumor Associated; ErbB 4 Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	3913590
NCBI GeneID	2066
UniProt Accession #	Q15303; Q2M1W1; Q59EW4; B7ZLD7; B7ZLE2; B7ZLE3
Molecular Weight	143,968 Da
NCBI Official Full Name	Receptor tyrosine-protein kinase erbB-4
NCBI Official Synonym Full Names	erb-b2 receptor tyrosine kinase 4
NCBI Official Symbol	ERBB4
NCBI Official Synonym Symbols	HER4; ALS19; p180erbB4
NCBI Protein Information	receptor tyrosine-protein kinase erbB-4
UniProt Protein Name	Receptor tyrosine-protein kinase erbB-4
UniProt Gene Name	ERBB4
UniProt Synonym Gene Names	HER4; 4ICD; E4ICD
UniProt Entry Name	ERBB4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/erbb-4-antibody-western-blot-immunoprecipitation-immunohistochemistry-elisa/75887>