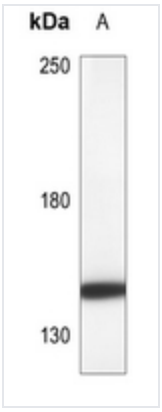
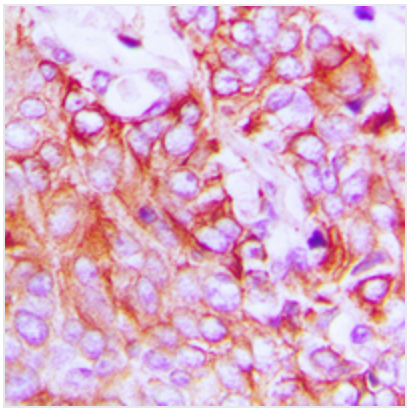
HER4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

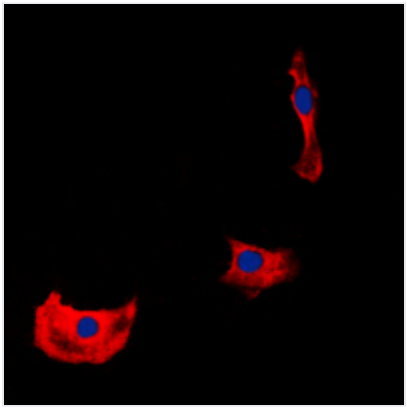
Product Name	HER4, Polyclonal Antibody
Full Product Name	Anti-HER4 Antibody
Product Gene Name	anti-HER4 antibody
Product Synonym Gene Name	ERBB4
Product Synonym Names	HER4; Receptor tyrosine-protein kinase erbB-4; Proto-oncogene-like protein c-ErbB-4; Tyrosine kinase-type cell surface receptor HER4; p180erbB4
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	146,808 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (212240442..213403352, complement). Location: 2q33.3-q34
OMIM	600543
3D Structure	ModBase 3D Structure for Q15303
Applications Tested/Suitable for anti-HER4 antibody	Western Blot (WB), Immunofluorescence (IF), Immunochemistry (IC), Immunohistochemistry (IHC)
Related Product Information for anti-HER4 antibody	Rabbit polyclonal antibody to HER4 KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human HER4. The exact sequence is proprietary.
Other Notes	Small volumes of anti-HER4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HER4 purchase	MBS9239851 is an antibody targeting HER4. Reactive in Human, Mouse, Rat. Host: Rabbit.



Wester Blot (WB) of anti-HER4 antibody
Dilution: WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500)Western blot analysis of HER4 expression in rat brain (A) whole cell lysates.



Immunohistochemistry (IHC) of anti-HER4 antibody
Dilution: WB: (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500)Immunohistochemical analysis of HER4 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescence (IF) of anti-HER4 antibody
Dilution: WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HER4. It may not necessarily be applicable to this product.

NCBI GI #	110825958
NCBI GeneID	2066
NCBI Accession #	NP_001036064.1
UniProt Primary Accession #	Q15303
UniProt Secondary Accession #	Q2M1W1; Q59EW4; B7ZLD7; B7ZLE2; B7ZLE3
UniProt Related Accession #	Q15303
GenBank Nucleotide #	NM_001042599.1
NCBI Official Full Name	receptor tyrosine-protein kinase erbB-4 isoform JM-a/CVT-2
NCBI Official Synonym Full Names	v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian)
NCBI Official Symbol	ERBB4
NCBI Official Synonym Symbols	HER4; p180erbB4
UniProt Protein Name	Receptor tyrosine-protein kinase erbB-4

UniProt Synonym Protein Names	Proto-oncogene-like protein c-ErbB-4; Tyrosine kinase-type cell surface receptor HER4; p180erbB4Cleaved into the following chain:ERBB4 intracellular domain; 4ICD; E4ICD; Alternative name(s):; s80HER4
UniProt Gene Name	ERBB4
UniProt Synonym Gene Names	HER4; 4ICD; E4ICD
UniProt Entry Name	ERBB4_HUMAN
NCBI Protein Information	receptor tyrosine-protein kinase erbB-4; proto-oncogene-like protein c-ErbB-4; tyrosine kinase-type cell surface receptor HER4; avian erythroblastic leukemia viral (v-erb-b2) oncogene homolog 4
NCBI Summary for HER4	This gene is a member of the Tyr protein kinase family and the epidermal growth factor receptor subfamily. 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 and a PDZ domain binding motif. The protein binds to and is activated by neuregulins and other factors 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. Mutations in this gene have been associated with cancer. Alternatively spliced variants which encode different protein isoforms have been described; however, not all variants have been fully characterized. [provided by RefSeq, Jul 2008]
UniProt Comments for HER4	HER4: a receptor tyrosine kinase of the EGFR family. Specifically binds and is activated by neuregulins, NRG- 2, NRG-3, heparin-binding EGF-like growth factor, betacellulin and NTAK. Heterodimerizes and signals with other EGF receptors. Interaction with these factors induces cell differentiation. Not activated by EGF, TGF-A, and amphiregulin. Interacts with PDZ domains of DLG2, DLG3, DLG4 and the syntrophin SNTB2. Interacts with WWOX. May act as a tumor suppressor: overexpressed in head and neck cancer , but downregulated in renal cancer, papillary carcinoma, high-grade gliomas and invasive breast cancer. 3 alternatively-spliced isoforms of the human protein have been reported. Protein type: Kinase, protein; EC 2.7.10.1; Protein kinase, TK; Membrane protein, integral; Protein kinase, tyrosine (receptor); TK group; EGFR family Chromosomal Location of Human Ortholog: 2q33.3-q34 Cellular Component: nucleoplasm; mitochondrion; basolateral plasma membrane; mitochondrial matrix; plasma membrane; extracellular region; integral to membrane; cytosol; nucleus; receptor complex Molecular Function: protein binding; protein homodimerization activity; protein-tyrosine kinase activity; receptor signaling protein tyrosine kinase activity; transmembrane receptor protein tyrosine kinase activity; ATP binding; epidermal growth factor receptor binding Biological Process: lactation; peptidyl-tyrosine phosphorylation; nerve growth factor receptor signaling pathway; heart development; positive regulation of transcription, DNA-dependent; protein amino acid autophosphorylation; embryonic pattern specification; signal transduction; olfactory bulb interneuron differentiation; regulation of cell migration; negative regulation of cell proliferation; positive regulation of cell proliferation; neural crest cell migration; positive regulation of cardiac muscle cell proliferation; epidermal growth factor receptor signaling pathway; nervous system development; cell migration; fibroblast growth factor receptor signaling pathway; cell fate commitment; phosphoinositide-mediated signaling; transcription, DNA-dependent; positive regulation of phosphoinositide 3-kinase activity; cell proliferation; central nervous system morphogenesis; positive regulation of tyrosine phosphorylation of Stat5 protein; innate immune response; positive regulation of protein amino acid phosphorylation; mitochondrial fragmentation during apoptosis; transmembrane receptor protein tyrosine kinase signaling pathway; negative regulation of apoptosis Disease: Amyotrophic Lateral Sclerosis 19
Research Articles on HER4	**1.** total ErbB4 protein expression was not significantly associated with prognostic markers
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

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