ErbB-3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ErbB-3, Polyclonal Antibody
Full Product Name	ErbB-3 Polyclonal Conjugated Antibody
Product Gene Name	anti-ErbB-3 antibody
Product Synonym Names	ERBB3; HER3; Receptor tyrosine-protein kinase erbB-3; Proto-oncogene-like protein c-ErbB-3; Tyrosine kinase-type cell surface receptor HER3
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	ErbB-3 polyclonal antibody detects endogenous levels of ErbB-3 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	148,098 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (56473809..56497291). Location: 12q13
OMIM	190151
3D Structure	ModBase 3D Structure for P21860
Immunogen	Synthesized peptide derived from the N-terminal region of human ErbB-3.
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-ErbB-3 antibody	Most Applications
Application Notes for anti-ErbB-3 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-ErbB-3 antibody	MBS9449786 is an antibody targeting ErbB-3. Also known as ErbB-3 Polyclonal Conjugated Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-ErbB-3 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ErbB-3. It may not necessarily be applicable to this product.

NCBI GI #	54792102
NCBI GeneID	2065
NCBI Accession #	NP_001005915.1
UniProt Primary Accession #	P21860
UniProt Secondary Accession #	Q9BUD7; A8K6L6; B4DIK7; B4DV32; E9PDT8
UniProt Related Accession #	P21860
GenBank Nucleotide #	NM_001005915.1
NCBI Official Full Name	receptor tyrosine-protein kinase erbB-3 isoform s
NCBI Official Synonym Full Names	v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian)
NCBI Official Symbol	ERBB3
NCBI Official Synonym Symbols	HER3; LCCS2; ErbB-3; c-erbB3; erbB3-S; MDA-BF-1; c-erbB-3; p180-ErbB3; p45-sErbB3; p85-sErbB3
UniProt Protein Name	Receptor tyrosine-protein kinase erbB-3
UniProt Synonym Protein Names	Proto-oncogene-like protein c-ErbB-3; Tyrosine kinase-type cell surface receptor HER3
Protein Family	ERBB-3 BINDING protein
UniProt Gene Name	ERBB3
UniProt Synonym Gene Names	HER3
UniProt Entry Name	ERBB3_HUMAN
NCBI Protein Information	receptor tyrosine-protein kinase erbB-3; proto-oncogene-like protein c-ErbB-3; tyrosine kinase-type cell surface receptor HER3
NCBI Summary for ErbB-3	This gene encodes a member of the epidermal growth factor receptor (EGFR) family of receptor tyrosine kinases. This membrane-bound protein has a neuregulin binding domain but not an active kinase domain. It therefore can bind this ligand but not convey the signal into the cell through protein phosphorylation. However, it does form heterodimers with other EGF receptor family members which do have kinase activity. Heterodimerization leads to the activation of pathways which lead to cell proliferation or differentiation. Amplification of this gene and/or overexpression of its protein have been reported in numerous cancers, including prostate, bladder, and breast tumors. Alternate transcriptional splice variants encoding different isoforms have been characterized. One isoform lacks the intermembrane region and is secreted outside the cell. This form acts to modulate the activity of the membrane-bound form. Additional splice variants have also been reported, but they have not been thoroughly characterized. [provided by RefSeq, Jul 2008]

UniProt Comments for ErbB-3	HER3: a receptor tyrosine kinase of the EGFR family. Binds and is activated by neuregulins and NTAK. Can form homodimers or ErbB-2/ErbB-3 heterodimers. Kinase domain lacks activity but heterodimerizes with other EGFRs to transduce growth signals. May be required for HER2 activity. Elevated expression in breast and other tumors is indicative of poor outcome. A secreted form is expressed in metastatic prostate cancer Two alternatively spliced isoforms have been described. Protein type: Oncoprotein; Kinase, protein; Protein kinase, tyrosine (receptor); Protein kinase, TK; Membrane protein, integral; EC 2.7.10.1; TK group; EGFR family Chromosomal Location of Human Ortholog: 12q13 Cellular Component: extracellular space; basolateral plasma membrane; integral to plasma membrane; apical plasma membrane; plasma membrane; receptor complex; lateral plasma membrane Molecular Function: identical protein binding; protein binding; transmembrane receptor activity; protein homodimerization activity; protein heterodimerization activity; protein-tyrosine kinase activity; growth factor binding; protein tyrosine kinase activator activity; ATP binding Biological Process: epidermal growth factor receptor signaling pathway; phosphoinositide 3-kinase cascade; fibroblast growth factor receptor signaling pathway; phosphoinositide-mediated signaling; nerve growth factor receptor signaling pathway; wound healing; heart development; cranial nerve development; negative regulation of cell adhesion; signal transduction; protein amino acid phosphorylation; peripheral nervous system development; negative regulation of signal transduction; regulation of cell proliferation; Schwann cell differentiation; positive regulation of phosphoinositide 3-kinase cascade; neuron apoptosis; innate immune response; negative regulation of secretion; negative regulation of neuron apoptosis; transmembrane receptor protein tyrosine kinase signaling pathway Disease: Lethal Congenital Contracture Syndrome 2
Research Articles on ErbB-3	**1.** ErbB3 might be considered as a biomarker for major depressive disorder (MDD). ErbB3 but not fibroblast growth factor receptor (Fgfr)1 mRNA levels are reduced in leukocytes of MDD patients compared to healthy subjects.
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