ErbB3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ErbB3, Polyclonal Antibody
Full Product Name	ErbB3, NT (Receptor Tyrosine-protein Kinase erbB-3, Proto-oncogene-like Protein c-ErbB-3, Tyrosine Kinase-type Cell Surface Receptor HER3, HER3) (MaxLight 650)
Product Gene Name	anti-ErbB3 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human ErbB3. Species Crossreactivity: mouse
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
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	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 24-55 in the N-terminal region of human ErbB3, UniProt Accession #P21860.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-ErbB3 antibody	Antibodies; Oncoproteins
Applications Tested/Suitable for anti-ErbB3 antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC) Paraffin, Western Blot (WB)
Application Notes for anti-ErbB3 antibody	FC/FACS: 1:10-1:50 WB: 1:1000 IHC-P: 1:50-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-ErbB3 antibody	MBS6474765 is an antibody targeting ErbB3. Also known as ErbB3, NT (Receptor Tyrosine-protein Kinase erbB-3, Proto-oncogene-like Protein c-ErbB-3, Tyrosine Kinase-type Cell Surface Receptor HER3, HER3) (MaxLight 650). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-ErbB3 antibody	1. Katoh, M., et al., Biochem. Biophys. Res. Commun. 192(3):1189-1197 (1993). 2. Plowman, G.D., et al., Proc. Natl. Acad. Sci. USA 87(13):4905-4909 (1990). 3. Kraus, M.H., et al., Proc. Natl. Acad. Sci. USA 86(23):9193-9197 (1989). 4. Gang Xu, et al. Circ. Res. published 30 July 2009, 10.1161.

Other Notes	Small volumes of anti-ErbB3 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 ErbB3. 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	Receptor tyrosine-protein kinase
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 ErbB3	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 ErbB3	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 ErbB3	**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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