HER3/Erbb3 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	HER3/ErbB3, Blocking Peptide
Full Product Name	HER3/ErbB3 Blocking Peptide
Product Gene Name	HER3/ErbB3 blocking peptide
Product Synonym Names	c erbB 3; c erbB3; Erb b2 receptor tyrosine kinase 3; ErbB 3; ERBB3; ERBB3 protein; erbB3 S; ERBB3_HUMAN; Glial growth factor receptor; HER 3; HER3; Human epidermal growth factor receptor 3; LCCS2; MDA BF 1; MGC88033; p180 ErbB3; p45 sErbB3; p85 sErbB3; proto-oncogene-like protein c ErbB 3; proto-oncogene-like protein c ErbB3; Proto-oncogene-like protein c-ErbB-3; Receptor tyrosine protein kinase erbB 3; Receptor tyrosine protein kinase erbB3; Receptor tyrosine-protein kinase erbB-3; Tyrosine kinase type cell surface receptor HER3; Tyrosine kinase-type cell surface receptor HER3; v erb b2 avian erythroblastic leukemia viral oncogene homolog 3; v erb b2 erythroblastic leukemia viral oncogene homolog 3 (avian); v erb b2 erythroblastic leukemia viral oncogene homolog 3
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	HER3/ErbB3 peptide (MBS9618769) is used for blocking the activity of HER3/ErbB3 antibody (MBS9611048)
Molecular Weight	148,098 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (56473809..56497291). Location: 12q13
OMIM	190151
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for HER3/ErbB3 blocking peptide	Blocking/Control
Related Product Information for HER3/ErbB3 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of HER3/ErbB3 blocking peptide 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 HER3/ErbB3 purchase	MBS9618769 is a blocking peptide targeting HER3/ErbB3.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HER3/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 #	NP_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
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 HER3/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 HER3/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 HER3/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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