



Human ERBB3 blocking peptide (CDBP1147)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Blocking/Immunizing peptide for anti-ERBB3/HER3 antibody
Antigen Description	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]
Species	Human
Conjugate	Unconjugated
Applications	Apuri, BL, ELISA
Format	Lyophilized powder
Size	100 µg
Preservative	None
Storage	Shipped at ambient temperature, store at -20°C.

GENE INFORMATION

Gene Name	ERBB3 v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 3 [Homo sapiens (human)]
Official Symbol	ERBB3
Synonyms	ERBB3; v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 3; HER3; LCCS2; ErbB-3; c-erbB3; erbB3-S; MDA-BF-1; c-erbB-3; p180-ErbB3; p45-sErbB3; p85-sErbB3; receptor tyrosine-protein kinase erbB-3; proto-oncogene-like protein c-ErbB-3; tyrosine kinase-type cell surface receptor HER3;
Entrez Gene ID	2065
mRNA Refseq	NM_001005915.1
Protein Refseq	NP_001005915.1
UniProt ID	P21860
Chromosome Location	12q13
Pathway	Adaptive Immune System, organism-specific biosystem; Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Constitutive PI3K/AKT Signaling in Cancer, organism-specific biosystem; DAP12 interactions, organism-specific biosystem; DAP12 signaling, organism-specific biosystem; Disease, organism-specific biosystem; Downregulation of ERBB2:ERBB3 signaling, organism-specific biosystem; Downstream Signaling Events Of B Cell Receptor (BCR), organism-speci
Function	ATP binding; growth factor binding; growth factor binding; protein binding; protein heterodimerization activity; protein heterodimerization activity; protein homodimerization activity; protein tyrosine kinase activator activity; NOT protein tyrosine kinas
