V-Erb B2 Erythroblastic Leukemia Viral Oncogene Homolog 3 (ErbB3) ELISA Kit for Bovine

PRODUCT OVERVIEW

Product Name	V-Erb B2 Erythroblastic Leukemia Viral Oncogene Homolog 3 (ErbB3), ELISA Kit
Full Product Name	Bovine V-Erb B2 Erythroblastic Leukemia Viral Oncogene Homolog 3 ELISA Kit
Product Gene Name	ErbB3 elisa kit
Species Reactivity	Bovine
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	148,098 Da
OMIM	190151
3D Structure	ModBase 3D Structure for P21860
Related Product Information for ErbB3 elisa kit	MBS096095 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the V-Erb B2 Erythroblastic Leukemia Viral Oncogene Homolog 3 (ErbB3) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing ErbB3. The ELISA analytical biochemical technique of the MBS096095 kit is based on ErbB3 antibody-ErbB3 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ErbB3 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ErbB3. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of ErbB3 elisa kit 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 #	12803739
NCBI GeneID	2065
NCBI Accession #	AAH02706.1
UniProt Primary Accession #	P21860
UniProt Secondary Accession #	Q9BUD7; A8K6L6; B4DIK7; B4DV32; E9PDT8
UniProt Related Accession #	P21860
NCBI Official Full Name	ERBB3 protein
NCBI Official Synonym Full Names	v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 3
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: Membrane protein, integral; Protein kinase, tyrosine (receptor); Kinase, protein; EC 2.7.10.1; Oncoprotein; Protein kinase, TK; TK group; EGFR family Chromosomal Location of Human Ortholog: 12q13 Cellular Component: extracellular space; integral to plasma membrane; basolateral plasma membrane; apical plasma membrane; plasma membrane; lateral plasma membrane; receptor complex Molecular Function: identical protein binding; protein binding; protein homodimerization activity; transmembrane receptor 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; regulation of cell proliferation; negative regulation of signal transduction; positive regulation of phosphoinositide 3-kinase cascade; Schwann cell differentiation; 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 is a clear-cut marker of a ganglioneuroblastoma/ganglioneuroma-like expression profile.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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