

Recombinant Human ERBB3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ERBB3-1933H Lot. No. (See product label)

SPECIFICATION

Product Overview	ERBB3 MS Standard C13 and N15-labeled recombinant protein (NP_001005915) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	20.17 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	MRANDALQVLGLLFSLARGSEVGNSQAVCPGTLNGLSVTGDAENQYQTLTKLYERC EVVMGNLEIVLTGHNADLSFLQWIREVTGYVLVAMNEFSTLPLPNLRVVRGTQVYDG KFAIFVMLNYNTNSSHARQLRLTQLTGQFPMVPSGLTPQQAQDWYLLDDDPRLLT LSASSKVPVTLAAVTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	ERBB3 erb-b2 receptor tyrosine kinase 3 [Homo sapiens (human)]
Official Symbol	ERBB3
Synonyms	ERBB3; v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian); LCCS2, lethal congenital contracture syndrome 2; receptor tyrosine-protein kinase erbB-3; HER3; proto-oncogene-like protein c-ErbB-3; tyrosine kinase-type cell surface receptor HER3; LCCS2; ErbB-3; c-erbB3; erbB3-S; MDA-BF-1; c-erbB-3; p180-ErbB3; p45-sErbB3; p85-sErbB3; MGC88033;
Gene ID	2065
mRNA Refseq	NM_001005915

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Protein Refseq	NP_001005915
MIM	190151
UniProt ID	P21860

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