

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

Cat. No. ERBB3-1765H Lot. No. (See product label)

SPECIFICATION

Product Overview	ERBB3 MS Standard C13 and N15-labeled recombinant protein (NP_001973) 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	148.1 kDa

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AA Sequence

MRANDALQVLGLLFSLARGSEVGNSQAVCPGTLNGLSVTGDENQYQTLTKLYERC
 EVVMGNLEIVLTGHNADLSFLQWIREVTGYVLVAMNEFSTLPLPNLRVVRGTQVYDG
 KFAIFVMLNYNTNSSHARQLRLTQLTEILSGGVYIEKNDKLCHMDTIDWRDIVRDRD
 AEIVVKDNGRSCPPCHEVCKGRCWGPGESEDCQTLTKTICAPQCNGHCFGNPNQNC
 CHDECAGGCSGPQDTCFACRHFNDSGACVPRCPQPLVYNKLTQLEPNPHTKYQ
 YGGVCVASCPhNFVVDQTSVVRACPPDKMEVDKNGLKMCEPCGGLCPKACEGTG
 SGRFQTVDSSNIDGFVNCTKILGNLDFLITGLNGDPWHKIPALDPEKLNVFRTVREIT
 GYLNISWPPHMHNFVFSNLTTIGGRSLYNRGFSLLIMKNLNVTSLGFRSLKEISAG
 RIYISANRQLCYHHSNWTKVLRGPTEERLDIKHNRPRRDCVAEGKVCDPLCSSGG
 CWGPGPGQCLSCRNYSRGGVCVTHCNFLNGEPREFAHEAEFCFSCHPECQPMEGT
 ATCNGSGSDTCAQCAHFRDGPCHVSSCPHGVLGAKGPIYKYPDVQNECRPCHENC
 TQGCKGPELQDCLGQTLVLIGKTHLTMAITVIAGLVVIFMMLGGTFLYWRGRRIQNK
 RAMRRYLERGESIEPLDPSEKANKVLARIFKETELRKLKVLGSGVFGTVHKGWVWPE
 GESIKIPVCIKVIEDKSGRQSFQAVTDHMLAIGSLDHAHIVRLLGLCPGSSLQLVTQYL
 PLGSLLDHVRQHRGALGPQLLLNWGVQIAKGMYYLEEHGMVHRNLAARNVLLKSPS
 QVQVADFGVADLLPPDDKQLLYSEAKTPIKWMALSIHFGKYTHQSDVWSYGVTVW
 ELMTFGAEPYAGLRLAEVPDLLEKGERLAQPQICTIDVYVMVMKVCWMIDENIRPTFK
 ELANEFTRMARDPPRYLVIKRESGPGIAPGPEPHGLTNKKLEEVELEPELDLDLEA
 EEDNLATTTLGSALSLPVGTINRPRGSQSLLSPSSGYMPMNQGNLGESCQESAVS
 GSSERCPRPVSLHPMPRGCLASESSEGHVTGSEAELEKQVSMCRSRSRSRSPRPR
 GDSAYHSQRHSLTPVTPLSPGLEEEDVNGYVMPDTHLKGTPSSREGTLSSVGLS
 SVLGTEEEDEDEEYEMNRRRRHSPHPPRPSSLEELGYEYMDVGSLSASLGST
 QSCPLHPVPIMPTAGTTPDEDYEMNRQRDGGGPGGDYAAMGACPASEQGYEEM
 RAFQGPQHAPHVHYARLKTLSLEATDSAFDNPDYWHSRLFPKANAQRTTRTRP
 LEQKLISEEDLAANDILDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Stability

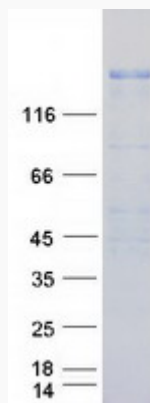
Stable for 3 months from receipt of products under proper storage and handling conditions.

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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_001982
Protein Refseq	NP_001973
MIM	190151
UniProt ID	P21860

SDS-PAGE

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