

Recombinant Full Length Human ERBB3 Protein, C-Flag-tagged

Cat. No. ERBB3-411HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ERBB3 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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Molecular Mass 146 kDa

AA Sequence

MRANDALQVLGLLFSLARGSEVGNSQAVCPGTLNGLSVTGDENQYQTLTKLYERC
 EVVMGNLEIVLTGH NADLSFLQWIREVTGYVLVAMNEFSTLPLPNLRVVRGTQVYD
 GKFAIFVMLNYNTNSSHALRQLRLTQLT EILSGGVYIEKNDKLCHMDTIDWRDIVRDR
 DAEIVVKDNGRSCPPCHEVCKGRCWGPGESEDCQTLTKTIC APQCNGHCFGNPNP
 QCCHDECAGGCSGPQDTCFACRHFNDSGACVPRCPQPLVYNKLTQLEPNPHTK
 Y QYGGVCVASCPHNFVVDQTSCVRACPPDKMEVDKNGLKMCPECGGLCPKACEG
 TGSGSRFQTVDSNIDG FVNCTKILGNLDFLITGLNGDPWHKIPALDPEKLNVFRTV
 REITGYLNIQSWPPHMHNFVFSNLTTIGG RSLYNRGFSLLIMKNLNVTSLGFRSLKE
 ISAGRIYISANRQLCYHHSNLTWKVLRGPTEERLDIKHNRPR RDCVAEGKVCPLCS
 SGGCWGPGPGQCLSCRNYSRGGVCVTHCNFLNGEPREFAHEAEFCFSCHPECQP
 ME GTATCNGSGSDTCAQCAHFRDGPCHVSSCPHGVLGAKGPIYKYPDVQNECRP
 CHENCTQGCKGPELQDCL GQTLVLIGKTHLTALTVIAGLVVIFMMLGGTFLYWRG
 RRIQNKRAMRRYLERGESIEPLDPSEKANKVL ARIFKETELRKLKVLGSGVFGTVHK
 GVWIEGESIKIPVCIKVIEDKSGRQSFQAVTDHMLAIGSLDHAH IVRLLGLCPGSSL
 QLVTQYLPLGSLLDHVRQHRGALGPQLLLNWGVQIAKGMYYLEEHGMVHRNLAAR
 NV LLKSPSQVQVADFGVADLLPPDDKQLLYSEAKTPIKWMALESIHFQKYTHQSDV
 WSYGVTWELMTFGAE PYAGLRLAEVPDLLEKGERLAQPQICTIDVYMVMVKCWM
 IDENIRPTFKELANEFTRMARDPPRYLVIKR ESGPGIAPGPEPHGLTNKKLEEVELEP
 ELDLDLDLEAEEDNLATTTLGSAISLPVGTNLRPRGSQSLLSP SSGYMPMNQGNLG
 ESCQESAVSGSSERCPRPVSLHPMPRGCLASESSEGHVTGSEAELEKVSMSRCSR
 SR SRSPRPRGDSAYHSQRHSLTPVTPLSPPGLEEEDVNGYVMPDTHLKGTSSR
 EGTLSVGLSSVLGTEE EDEDEEYEMNRRRRHSPHPPRSSLEELGYEYMDVG
 SDLSASLGSTQSCPLHPVPIMPTAGTTPDEDY EYMNRQRDGGGPGGDYAAMGAC
 PASEQGYEEMRAFQGPQGHQAPHVHYARLKTLSLEATDSAFDNPDYWH
 SRLFPKANAQRTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

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Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Adult stem cells, Druggable Genome, Protein Kinase, Secreted Protein, Stem cell - Pluripotency, Transmembrane
Protein Pathways	Calcium signaling pathway, Endocytosis, ErbB signaling pathway
Full Length	Full L.

GENE INFORMATION

Gene Name	ERBB3 erb-b2 receptor tyrosine kinase 3 [Homo sapiens (human)] Gene ID: 2065, updated on 30-Oct-2022 Download Datasets
Official Symbol	ERBB3
Synonyms	HER3; FERLK; LCCS2; VSCN1; ErbB-3; c-erbB3; erbB3-S; MDA-BF-1; c-erbB-3; p180-ErbB3; p45-sErbB3; p85-sErbB3
Gene ID	2065
mRNA Refseq	NM_001982.4

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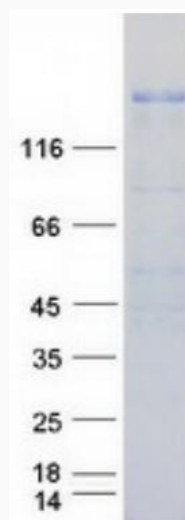
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Protein Refseq [NP_001973.2](#)

MIM [190151](#)

UniProt ID [P21860](#)



Coomassie blue staining of purified ERBB3 protein.

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