

Product datasheet for PH324398

ErbB 3 (ERBB3) (NM_001005915) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ERBB3 MS Standard C13 and N15-labeled recombinant protein (NP_001005915)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC224398
Predicted MW:	20.17 kDa
Protein Sequence:	>RC224398 representing NM_001005915 Red=Cloning site Green=Tags(s) MRANDALQVLGLLFLSLARGSEVGNLSQAVCPGTLNGLSVTGAENQYQTLYKLYERCEVVMGNLEIVLTGH NADLSFLQWIREVTGYVLVAMNEFSTLPLPNLRVVRGTQVYDGGKFAIFVMLNYNTNSSHALRQLRLTQLT GQFPMVPSGLTPQQAQDWYLLDDDPRLTLSSASKVPVTLAAV TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_001005915</u>
RefSeq Size:	1050
RefSeq ORF:	549
Synonyms:	c-erbB-3; c-erbB3; ErbB-3; erbB3-S; FERLK; HER3; LCCS2; MDA-BF-1; p45-sErbB3; p85-sErbB3; p180-ErbB3
Locus ID:	2065
UniProt ID:	<u>P21860</u>



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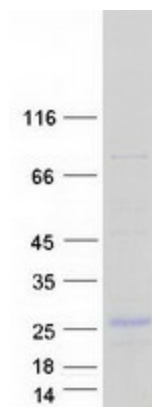
Cytogenetics: 12q13.2

Summary: 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]

Protein Families: Adult stem cells, Druggable Genome, Protein Kinase, Secreted Protein, Stem cell - Pluripotency, Transmembrane

Protein Pathways: Calcium signaling pathway, Endocytosis, ErbB signaling pathway

Product images:



Coomassie blue staining of purified ERBB3 protein (Cat# [TP324398]). The protein was produced from HEK293T cells transfected with ERBB3 cDNA clone (Cat# [RC224398]) using MegaTran 2.0 (Cat# [TT210002]).