

## Product datasheet for PH312583

### Her2 (ERBB2) (NM\_004448) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ERBB2 MS Standard C13 and N15-labeled recombinant protein (NP_004439)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC212583
Predicted MW:	137.7 kDa
Protein Sequence:	>RC212583 representing NM_004448 Red=Cloning site Green=Tags(s)

MELAALCRWGLLLALLPPGAASTQVCTGTMKLRPLPASPETHLDMLRHL YQGCQVQGNLELTYLPTNAS  
LSFLQDIQEYQGYVLI AHNQVRQVPLQRLRIVRGTQL FEDNYALAVLDNGDPLNNTTPVTGASPGGLREL  
QLRSLTEILKGGVLIQRNPQLCYQDTILWKDIFHKNNQLAL TLIDTNRSRACHPCSPMCKGSRWGESSE  
DCQSLTRTV CAGGCARCKGPLPTDCHEQCAAGCTGPKHSDCLACLHFNHSGICE LHCPALVTYNTDTFE  
SMPNPEGRYTFGASCVTACPYNYLSTDVGSCTLVCPLHNQEVTAEDGTQRCEKCSKPCARVCYGLGMEHL  
REVRAVTSANIQEFAGCKKIFGSLAFLPESFDGDPASNTAPLQPEQLQVFETLEEITGYLYISAWPDSL  
DL SVFQNLQVIRGRILHNGAYS LTLQGLGISWLGLRSLREL GSGLAL IHHNTHLCFVHTVPWDQLFRNPH  
QALLHTANRPEDECVGEGLACHQLCARGHCWGPPTQCVNCSQFLRGQECVEECRVLQGLPREYVNRHC  
LPCHPECQPQNGSVTCFGL EADQCVACAHYKDP PFCVARCP SGVKPDL SYMPIWKFPDEEGACQPCPINC  
THSCVDLDDKGC PAEQRASPLTSII SAVVGILLVVVLGVVFGILIKRRQKIRKYTMRRLLQETELVEPL  
TPSGAMPNQAQMRILKETELRKVKVLGSGAFGTVYKGIWIPDGENVKIPVAIKVLRENTSPKANKEILDE  
AYVMAGVGSPPYVSRLLGICL TSTVQLVTQLMPYGCLLDHVREN RGLGSQDLLNWCMI AKGMSYLEDVR  
LVHRDLAARNVLVKSPNHVKITDFGLARLLDIDETEYHADGGKVP IKWMALESILRRRFTHQSDVWSYGV  
TVWELMTFGAKPYDGIPAREIPD LLEKGERLPQPP ICTIDVYIMV KCMWIDSECRPRFREL VSEF SRMA  
RDPQRFVVIQNE DLGPASPLDSTFYRSLLED DDMGDLVDAE EYLVPQQGFFCPDPAPGAGGMVHHRHRS  
STRSGGGDLTLGLEPSEEEAPRSPLAPSEGAGSDVFDGDLGMGAAGLQSLPTHDP SPLQRYSEDPTVPL  
PSETDGYVAPLTCSPQEYVNQPDVVRPQPPSPREGPLPAARPAGATLERPKT LSPKNGVVKDVF AFGGA  
VENPEYLTPQGGAAPQHPPPAFSPAFDNLYYWDQDPPERGAPPSTFKGTPTAENPEYLGLDVPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

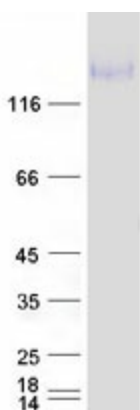
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine



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<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3
<b>Storage:</b>	Store at -80°C. Avoid repeated freeze-thaw cycles.
<b>Stability:</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>RefSeq:</b>	<a href="#">NP_004439</a>
<b>RefSeq Size:</b>	4624
<b>RefSeq ORF:</b>	3765
<b>Synonyms:</b>	CD340; HER-2; HER-2/neu; HER2; MLN 19; NEU; NGL; TKR1
<b>Locus ID:</b>	2064
<b>UniProt ID:</b>	<a href="#">P04626</a> , <a href="#">X5DNK3</a>
<b>Cytogenetics:</b>	17q12
<b>Summary:</b>	This gene encodes a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. This protein has no ligand binding domain of its own and therefore cannot bind growth factors. However, it does bind tightly to other ligand-bound EGF receptor family members to form a heterodimer, stabilizing ligand binding and enhancing kinase-mediated activation of downstream signalling pathways, such as those involving mitogen-activated protein kinase and phosphatidylinositol-3 kinase. Allelic variations at amino acid positions 654 and 655 of isoform a (positions 624 and 625 of isoform b) have been reported, with the most common allele, Ile654/Ile655, shown here. Amplification and/or overexpression of this gene has been reported in numerous cancers, including breast and ovarian tumors. Alternative splicing results in several additional transcript variants, some encoding different isoforms and others that have not been fully characterized. [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>Protein Pathways:</b>	Adherens junction, Bladder cancer, Calcium signaling pathway, Endometrial cancer, ErbB signaling pathway, Focal adhesion, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Prostate cancer

### Product images:



Coomassie blue staining of purified ERBB2 protein (Cat# [TP312583]). The protein was produced from HEK293T cells transfected with ERBB2 cDNA clone (Cat# [RC212583]) using MegaTran 2.0 (Cat# [TT210002]).