

Recombinant Human ERBB2 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. ERBB2-046H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ERBB2 MS Standard Protein (NP_001005862, C13 and N15-labeled), was expressed in HEK293 cells with C-terminal MYC/DDK tag.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	134.7 kDa
AA Sequence	MKLRLPASPETHLDMLRHLYQGCQVVQGNLELTYLPTNASLSFLQDIQEVQGYVLIA

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HNQVRQVPLQRLRIVRGTQLFEDNYALAVLDNGDPLNNTTPVTGASPGGLRELQLR
 SLTEILKGGVLIQRNPQLCYQDTILWKDIFHKNNQLALTLIDTNRSRACHPCSPMCKG
 SRCWGESSEDCQSLTRTVCAGGCARCKGPLPTDCCHEQCAAGCTGPKHSDCLAC
 LHFNHSGICELHCPALVTYNTDTFESMPNPEGRYTFGASCVTACPYNYLSTDVGSC
 TLVCPLHNQEVTAEEDGTQRCEKCSKPCARVCYGLGMEHLREVRVTSANIQEFAGC
 KKIFGSLAFLPESFDGDPASNTAPLQPEQLQVFETLEEITGYLYISAWPDSLPLDSVF
 QNLQVIRGRILHNGAYSLTLQGLGISWLGLRSLRELGSGLALIHNNHLCFVHTVPWD
 QLFRNPHQALLHTANRPEDECVGEGLACHQLCARGHCWGPGPTQCVNCSQFLRG
 QECVEECRVLQGLPREYVNARHCLPCHPECQPQNGSVTCFGPEADQCVACAHYK
 DPPFCVARCPSGVKPDLSPYMPIWKFPDEEGACQPCPINCTHSCVDLDDKGCPAEQ
 RASPLTSIISAVVGILLVVVLGVVFGILIKRRQQKIRKYTMRRLLQETELVEPLTPSGAM
 PNQAQMRILKETELRKVKVLGSGAFGTVYKGIWIPDGENVKIPVAIKVLRENTSPKAN
 KEILDEAYVMAGVGSPYVSRLLGICLTSTVQLVTQLMPYGCLLDHVRENRRGLGSQD
 LLNWCMQIAKGMSYLEDVRLVHRDLAARNVLVKSPNHVKITDFGLARLLDIDETEYH
 ADGGKVPIKWMALLESILRRRFTHQSDVWSYGVTWELMTFGAKPYDGIPAREIPDLL
 EKGERLPQPPICTIDVYMIMVKCWMIDSECRPRFRELVSFMRMARDPQRFVVIQNE
 DLGPASPLDSTFYRSLLEDDDMGDLVDAEEYLVPQQGFFCPDPAPGAGGMVHHRH
 RSSSTRSGGGDLTLGLEPSEEEAPRSPLAPSEGAGSDVFDGDLGMGAAGLQSLP
 THDPSPLQRYSEDPTVPLPSETDGYVAPLTCSPQPEYVNQPDVRPQPPSPREGPLP
 AARPAGATLERPKTLSPGKNGVVKDVFAFGGAVENPEYLTQGGGAAPQPHPPPAFS
 PAFDNLYYWDQDPPERGAPPSTFKGTPTAENPEYLGLDVPVTRTRPLEQKLISEEDL
 AANDILDYKDDDDKV

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 ERBB2 erb-b2 receptor tyrosine kinase 2 [Homo sapiens (human)]

Official Symbol ERBB2

Synonyms

ERBB2; erb-b2 receptor tyrosine kinase 2; CD340; HER-2; HER-2/neu; HER2; MLN 19; NEU; NGL; TKR1; receptor tyrosine-protein kinase erbB-2; c-erb B2/neu protein; herstatin; human epidermal growth factor receptor 2; metastatic lymph node gene 19 protein; neuro/glioblastoma derived oncogene homolog; neuroblastoma/glioblastoma derived oncogene homolog; proto-oncogene Neu; proto-oncogene c-ErbB-2; tyrosine kinase-type cell surface receptor HER2; v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2; v-erb-b2 avian erythroblastic leukemia viral oncoprotein 2; v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog; EC 2.7.10.1

Gene ID 2064

mRNA Refseq NM_001005862

Protein Refseq NP_001005862

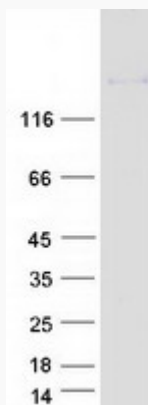
MIM 164870

UniProt ID P04626

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SDS-PAGE

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