

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

Cat. No. ERBB2-077H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ERBB2 MS Standard Protein (NP_004439, 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	137.7 kDa
AA Sequence	MELAALCRWGLLLALLPPGAASTQVCTGTDMKLRLPASPETHLDMLRHLYQGCQVV

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QGNLELTYLPTNASLSFLQDIQEVQGYVLIHQNVRQVPLQRLRIVRGTQLFEDNYAL
 AVLNDGDLNNTTPVTGASPGGLRELQLRSLTEILKGGVLIQRNPQLCYQDTILWKDI
 FHKNNQLALTLIDTNRSRACHPCSPMCKGSRGWGESSEDCQSLTRTVCAAGGCARC
 KGPLPTDCCHEQCAAGCTGPKHSDCLACHFNHSGICELHCPALVTYNTDTFESMP
 NPEGRYTFGASCVTACPYNLSTDVGSCTLVCPLHNQEVTAEEDGTQRCEKCSKPC
 ARVCYGLGMEHLREVRAVTSANIQEFAGCKKIFGSLAFLPESFDGDPASNTAPLQPE
 QLQVFETLEEITGYLYISAWPDSLPLDSVFNQLQVIRGRILHNGAYSLTLQGLGISWL
 GLRSLRELGSGALIHNNHLCFVHTVPWDQLFRNPHQALLHTANRPEDECVGEGL
 ACHQLCARGHCWGPGPTQCVNCSQFLRGQECVEECRVLQGLPREYVNARHCLPC
 HPECQPQNGSVTCFGLQADQCVACAHYKDPFFCVARCPSGVKPDLSPYMWKFPD
 EEGACQPCPINCTHSCVDLDDKGCPAEQASPLTSIISAVVGILLVVVLGVVFGILIKR
 RQQKIRKYTMRRLLQETELVEPLTPSGAMPNQAMRILKETELRKVKVLGSGAFGTV
 YKGIWIPDGENVKIPVAIKVLRENTSPKANKEILDEAYVMAGVGSPYVSRLGICLTST
 VQLVTQLMPYGCLLDHVRENRRGLGSQDLLNWCMQIAKGMSYLEDVRLVHRDLAA
 RNVLVKSPNHVKITDFGLARLLDIDETEHADGGKVPIKWMALLESILRRRFTHQSDV
 WSYGVTWELMTFGAKPYDGIPAREIPDLLEKGERLPQPPICIDVYMIMVKCWMID
 SECRPRFRELVSFESRMARDPQRFVVIQNEGLPASPLDSTFYRSLLEDDDMGDLV
 DAEYLVPQQGFFCPDPAPGAGGMVHHRHRSSTRSGGGDLTLGLEPSEEEAPRS
 PLAPSEGAGSDVFDGDLGMGAAGLQSLPTHDPSPQLQRYSEDPTVPLPSETDGYV
 APLTCSPQPEYVNQPDVRPQPPSPREGPLPAARPAGATLERPKTLSPGKNGVVKDV
 FAFGGAVENPEYLTPQGGAAPQPHPPPAFSPAFDNLYYWDQDPPERGAPPSTFKG
 TPTAENPEYLGDLVPVTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

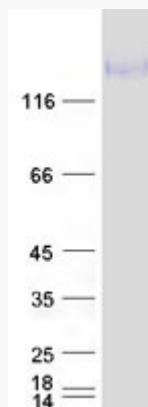
Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

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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_004448
Protein Refseq	NP_004439
MIM	164870
UniProt ID	P04626

SDS-PAGE

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